# EXHIBIT 98-B Redacted Version of Document Sought to be Sealed

### Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 2 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	UNITED STATES DISTRICT COURT	
2	NORTHERN DISTRICT OF CALIFORNIA	
3		
4	IN RE: FACEBOOK, INC., MDL No. 2843	
5	CONSUMER USER PROFILE Case No.	
6	LITIGATION 18-md-02843-VC-JSC	
7	This document relates to:	
8	ALL ACTIONS	
9		
10	**CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER**	
11		
12	ZOOM DEPOSITION OF FACEBOOK's 30(b)(6)	
13	CORPORATE REPRESENTATIVE - ISABELLA LEONE	
14	(Reported Remotely via Video & Web Videoconference)	
15	Seattle, Washington (Deponent's location)	
16	Friday, August 5, 2022	
17	Volume 1	
18		
19	STENOGRAPHICALLY REPORTED BY:	
20	REBECCA L. ROMANO, RPR, CSR, CCR	
	California CSR No. 12546	
21	Nevada CCR No. 827	
	Oregon CSR No. 20-0466	
22	Washington CCR No. 3491	
23	JOB NO. 5345580	
24		
25	PAGES 1 - 369	
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1	UNITED STATES DISTRICT COURT
2	NORTHERN DISTRICT OF CALIFORNIA
3	
4	IN RE: FACEBOOK, INC., MDL No. 2843
5	CONSUMER USER PROFILE Case No.
6	LITIGATION 18-md-02843-VC-JSC
7	
8	This document relates to:
9	ALL ACTIONS
10	
11	
12	
13	
14	
15	VIDEOTAPED DEPOSITION OF ISABELLA LEONE, taken
16	on behalf of the Plaintiffs, with the deponent
17	located in Seattle, Washington, commencing at
18	8:04 a.m., Friday, August 5, 2022, remotely
19	reported via Video & Web videoconference before
20	REBECCA L. ROMANO, a Certified Shorthand Reporter,
21	Certified Court Reporter, Registered Professional
22	Reporter.
23	
24	
25	
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1	APPEARANCES OF COUNSEL
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                                                Page 4
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```
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                                                Page 6
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```
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     Litigation and Regulatory at Meta
19
          John Macdonell, Videographer
20
21
22
23
24
    /////
25
                                                 Page 7
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1		INDEX	
2	DEPONENT	EXA	MINATION
3	ISABELLA LEO	NE	PAGE
	VOLUME 1		
4			
5		BY MS. WEAVER	13
6			
7			
8		EXHIBITS	
9	NUMBER		PAGE
10		DESCRIPTION	
11	Exhibit 655	I. Leone CA MDL August 5,	15
12		2022 Deposition Notes,	
13		ADVANCE-META-00003632;	
14			
15	Exhibit 656	Newsroom Article - Understand	145
16		Why You're Seeing Certain Ads	
17		and How you Can Adjust Your	
18		Ad Experience,	
19		FB-CA-MDL-03969941 -	
20		FB-CA-MDL-03969951;	
21			
22	Exhibit 657	Gibson Dunn Letter dated	155
23		7/29/2022;	
24			
25	////		
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1		EXHIBITS(cont'd)	
2	NUMBER		PAGE
3		DESCRIPTION	
4	Exhibit 658	How Does Facebook Use	201
5		Machine Learning to	
6		Delivery Ads?   Meta	
7		For Business Article:	
8		Good Questions, Real	
9		Answers: How Does	
10		Facebook Use Machine	
11		Learning to Deliver Ads?,	
12		FB-CA-MDL-03969899 -	
13		FB-CA-MDL-03969907;	
14			
15	Exhibit 659	Email String Subject:	211
16		Facebook Follow-ups for BMS,	
17		FB-CA-MDL-03526129 -	
18		FB-CA-MDL-03526133;	
19			
20	Exhibit 660	Meta Business Help Center Use	251
21		Detailed Targeting,	
22		FB-CA-MDL-03969858 -	
23		FB-CA-MDL-03969862;	
24			
25	////		
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1		E X H I B I T S(cont'd)	
2	NUMBER		PAGE
3		DESCRIPTION	
4	Exhibit 661	Article - AG Ferguson	260
5		investigation leads to	
6		Facebook making nationwide	
7		changes to prohibit	
8		discriminatory advertisements	
9		on its platform;	
10			
11	Exhibit 662	Assurance of Discontinuance;	281
12			
13	Exhibit 663	Email String Subject:	331
14		PMD-related enforcement,	
15		FB-CA-MDL-02140811 -	
16		FB-CA-MDL-02140812.	
17			
18			
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			D 10
			Page 10

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1	Seattle, Washington; Friday, August 5, 2022	09:04:04
2	8:04 a.m.	
3	000	
4		
5	THE VIDEOGRAPHER: And we're on the	07:48:14
6	record. It's 8:04 a.m. Pacific Time on August 5th,	
7	2022. This is the deposition of Isabella Leone.	
8	We're here in the matter of Facebook Consumer	
9	Privacy User Profile Litigation.	
10	I'm John Macdonell, the videographer,	08:04:57
11	with Veritext.	
12	Before the reporter swears the witness,	
13	would counsel please identify themselves, beginning	
14	with the noticing attorney, please.	
15	MS. WEAVER: Yes. Good morning.	08:05:08
16	This is Lesley Weaver with	
17	Bleichmar Fonti & Auld on behalf of the plaintiffs.	
18	And with me today from my firm are Josh Samra and	
19	Angelica Ornelas.	
20	MR. BENJAMIN: Good morning.	08:05:21
21	I'm Matt Benjamin of	
22	Gibson, Dunn & Crutcher on behalf of Meta Facebook	
23	and the witness.	
24	With me are Martie Kutscher Clark,	
25	Naima Farrell, Matt Buongiorno and Phuntso Wangdra,	08:05:28
		Page 11

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1	also from Gibson Dunn. And Ian Chen from Meta.	08:05:33
2	THE COURT REPORTER: If you could raise	
3	your right hand for me, please.	
4	THE DEPONENT: (Complies.)	
5	THE COURT REPORTER: You do solemnly	08:05:39
6	state, under penalty of perjury, that the testimony	
7	you are about to give in this deposition shall be	
8	the truth, the whole truth and nothing but the	
9	truth?	
10	THE DEPONENT: I do.	08:05:39
11		
12		
13		
14		
15		08:05:40
16		
17		
18		
19		
20		08:05:40
21		
22		
23		
24		
25	////	08:05:55
		Page 12
ı	V 'I 101.'	

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1	ISABELLA LEONE,	08:05:56
2	having been administered an oath, was examined and	
3	testified as follows:	
4		
5	EXAMINATION	08:05:56
6	BY MS. WEAVER:	
7	Q. Good morning, Ms. Leone.	
8	A. Good morning.	
9	Q. Thanks for joining us today.	
10	Have have you been deposed before?	08:06:06
11	A. I have not.	
12	Q. Okay. Well, good good times are ahead	
13	for you.	
14	So really briefly, I I know that	
15	you've covered these rules with your counsel, but	08:06:13
16	it's good if we discuss it on the record.	
17	As you can see, Ms. Romano here is	
18	transcribing what we discuss today. And so because	
19	of that transcription process and because we are	
20	making a record, it's really important that we not	08:06:30
21	speak over each other and that we answer questions	
22	audibly.	
23	Does that make sense?	
24	A. Absolutely.	
25	Q. Okay. If you don't understand a question	08:06:39
		Page 13

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1	that I'm asking, please just ask for clarity and	08:06:43
2	I'll rephrase it, because the really important	
3	thing is that we're communicating accurately with	
4	one another; is that fair?	
5	A. Yeah. Absolutely.	08:06:53
6	Q. Okay. A general rule is that if there is	
7	a question pending, you may not take a break, you	
8	should answer the question. Unless you're	
9	instructed not to answer by your counsel.	
10	And and the final point is that I'm	08:07:12
11	sure you've seen courtroom dramas where the witness	
12	is on the stand and the judge is making rulings.	
13	In a deposition, that doesn't happen. So your	
14	counsel will be inserting objections for the	
15	record, but there will be no ruling on them.	08:07:25
16	So you should answer the question, again,	
17	unless you are instructed not to answer because we	
18	are not graced with the presence of a judge saying	
19	overruled or sustained, so	
20	Is that fair?	08:07:39
21	A. Yup. Understood.	
22	MS. WEAVER: Okay. And before the	
23	deposition started, your counsel emailed a document	
24	over to us today, which we have marked as	
25	Exhibit 1.	08:07:52
		Page 14

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1	(Exhibit 655 was marked for	08:07:53		
2	identification by the court reporter and is			
3	attached hereto.)			
4	Q. (By Ms. Weaver) And did you discuss with			
5	your counsel how exhibits are marked in these	08:07:56		
6	remote kinds of depositions?			
7	A. Yes.			
8	Q. Okay. So do you have Exhibit Share up?			
9	A. Uh-huh. Yes, I have it up.			
10	Q. And you can see Exhibit 1?	08:08:07		
11	A. Yes.			
12	Q. Okay. And what is Exhibit 1?			
13	A. It's a document I put together for how I			
14	prepared for today.			
15	Q. Okay. And when did you prepare it?	08:08:22		
16	A. I summarized this yesterday, this			
17	document.			
18	Q. And were there other underlying notes			
19	that you used to prepare this?			
20	MR. BENJAMIN: Objection to form.	08:08:37		
21	THE DEPONENT: It was a summary document			
22	so it collated my calendar to get to the the			
23	hours that we looked at.			
24	I'm I'm not sure if that's exactly			
25	what you meant.	08:08:50		
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1	Q. (By Ms. Weaver) No, that's fair. That's	08:08:51
2	fine.	
3	Just trying to understand you actually	
4	yourself created the document; is that right?	
5	A. Yes.	08:08:57
6	Q. Okay. And when you you wrote	
7	"Approximately 36 hours with counsel."	
8	Do you see that?	
9	A. Yes.	
10	Q. Which counsel are you referring to?	08:09:09
11	A. Gibson Dunn. So Matt Benjamin and the	
12	broader team.	
13	Q. And who else other than Mr. Benjamin?	
14	A. Martie Phuntso. Matt Matt Buongiorno,	
15	the other Matt. Rose Ring and Naima Farrell.	08:09:23
16	Q. Okay. And anyone else?	
17	A. I don't believe so from the Gibson Dunn	
18	team. And then Ian Chen, our my the the	
19	Meta lawyer who's also on the call.	
20	Q. Okay. Did you meet with any other	08:09:42
21	lawyers during those 36 hours?	
22	A. No.	
23	Q. Okay. Did you meet with any lawyers to	
24	prepare at all?	
25	A. No, not aside from these lawyers.	08:09:53
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1	Q. Okay. Sometimes I'm asking you questions	08:09:56
2	and it may seem curious to you. But again, we're	
3	laying foundation for a record that I'm just trying	
4	to make sure that I'm not missing something.	
5	When did you meet with counsel during	08:10:08
6	those 36 hours?	
7	A. Those have been divided up over multiple	
8	weeks. I think originally, towards the end of May,	
9	and then sessions over time that varied between an	
10	hour and three to four hours long. And I don't	08:10:23
11	remember the exact number of sessions.	
12	Q. And during those sessions, did counsel	
13	provide you with documents?	
14	A. We discussed the documents for this	
15	deposition. And then as well as documents from my	08:10:37
16	prep, whether that was external Facebook	
17	documents or documents that that we worked	
18	through about the products or anything relevant.	
19	Q. And when you say "the external," what did	
20	you mean?	08:10:54
21	A. Sorry. I mean, articles such as like our	
22	help center or our news blog posts, areas where	
23	we've discussed our targeting and ranking	
24	externally. And then as well as our internal	
25	references about those products as well.	08:11:08
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1	Q. And when you say "internal references,"	08:11:10
2	what are you referring to?	
3	A. For example I'm trying to think of a	
4	good example that makes sense.	
5	I I'm I can double-check. I think	08:11:30
6	we used an internal wiki, which is kind of like our	
7	version of how we how how our internal, like	
8	way of documenting for teams to reference.	
9	And similar if if any internal	
10	announcements that were relevant. So I I	08:11:49
11	believe looking at like an internal announcement	
12	that helps us get our sales teams in prepared	
13	for an external announcement. So that's the	
14	that's an example of of an internal document	
15	that I looked at.	08:12:04
16	Q. Got it.	
17	And for the internal documents, did you	
18	provide those to counsel to discuss or did they	
19	provide them to you?	
20	MR. BENJAMIN: Objection to form.	08:12:14
21	MS. WEAVER: Let me ask differently.	
22	Q. (By Ms. Weaver) Did you provide any of	
23	those internal documents to prepare for your	
24	deposition?	
25	MR. BENJAMIN: Objection. Form.	08:12:23
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1	THE DEPONENT: I'm did I provide them	08:12:26
2	to my counsel or in our conversations, or look at	
3	them during those sessions?	
4	I'm not totally sure what you mean.	
5	Q. (By Ms. Weaver) Did did you yourself	08:12:35
6	identify any internal documents that you used to	
7	prepare for this deposition?	
8	A. Without anyone else? No, I I don't	
9	think so.	
10	Q. Okay. So the materials that you used to	08:12:48
11	prepare were largely, if not exclusively, curated	
12	by the attorneys; is that right?	
13	MR. BENJAMIN: Objection to form.	
14	Misstates.	
15	THE DEPONENT: I they weren't	08:13:06
16	exclusively from the legal team. They could have	
17	been from the groups and the people we also worked	
18	on with my prep, our employees that aren't lawyers.	
19	Q. (By Ms. Weaver) And did you provide any	
20	documents to prepare?	08:13:19
21	MR. BENJAMIN: Objection. Form.	
22	THE DEPONENT: I I don't believe I	
23	did, no.	
24	Q. (By Ms. Weaver) And how many documents	
25	did the team that you met with provide?	08:13:28
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1	A. The legal team or when	08:13:34
2	(Simultaneously speaking.)	
3	Q. (By Ms. Weaver) The nonlegal	
4	A. The nonlegal team	
5	Q. Sorry.	08:13:39
6	A. Go ahead.	
7	Q. That's my fault. I apologize.	
8	How many documents did the nonlegal team	
9	identify and provide for you to use in preparation	
10	for this deposition?	08:13:51
11	MR. BENJAMIN: Objection. Form. Vague.	
12	THE DEPONENT: I I think I can	
13	think of like one document that that one of	
14	the one of the people I was speaking to	
15	referenced, and then I looked for that document.	08:14:08
16	Q. (By Ms. Weaver) And what document was	
17	that?	
18	A. It was one of the sales announcements	
19	that I referenced ahead of an external	
20	announcement.	08:14:17
21	Q. And did you find it useful in terms of	
22	preparing for your deposition?	
23	A. Not particularly, to be honest.	
24	Q. And why is that?	
25	A. It didn't have it it didn't really	08:14:28
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1	give me the information I was looking for.	08:14:31
2	Q. Okay. And what was the information you	
3	were looking for?	
4	A. I was trying to understand what was an	
5	update we made in our targeting tools and it didn't	08:14:39
6	actually describe it particularly in detail. So it	
7	was not a very ref helpful reference.	
8	Q. Got it.	
9	And what year was the update that you	
10	were thinking of?	08:14:53
11	A. It was	
12	MR. BENJAMIN: Objection to form.	
13	THE DEPONENT: Sorry.	
14	MR. BENJAMIN: Sorry, Isabella.	
15	Objection. Form.	08:15:02
16	THE DEPONENT: It was 20 2013 or	
17	2014.	
18	Q. (By Ms. Weaver) And did you find the	
19	answer that you were looking for with regard to	
20	this update in 2013 and 2014?	08:15:16
21	A. Yes, I did.	
22	MR. BENJAMIN: Objection.	
23	Q. (By Ms. Weaver) And and what was the	
24	issue, if you don't mind explaining?	
25	A. Yeah, absolutely.	08:15:26
		Page 21

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1	We had it was actually related to one	08:15:27
2	of the documents you you that's that was	
3	part of the deposition, the exhibits. It was	
4	related to the the removal of our reach	
5	estimates.	08:15:40
6	Q. Okay. We'll return to that in a bit	
7	because I think what I want to do is try to be a	
8	little more methodical and talk about definitions,	
9	et cetera.	
10	Returning back to Exhibit 1 for just a	08:15:53
11	moment, you said you wrote here that you spent	
12	eight hours preparing on your own; is that right?	
13	A. Yes.	
14	Q. What did you do to prepare on your own?	
15	A. I largely reread the documents that were	08:16:05
16	submitted, and then read the the the	
17	documents that the legal team had put together as	
18	well.	
19	Q. Okay. And when you wrote, "documents	
20	from Plaintiffs," did you mean the documents that	08:16:18
21	we identified for the deposition?	
22	A. (Deponent nods head.)	
23	Q. Okay.	
24	A. Those as well as just the I I'm not	
25	sure if it make a difference, but the ones	08:16:30
		Page 22

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1	specifically I understood like the exhibits for	08:16:32
2	this dep deposition. But then also like the	
3	notice as well as the scenario documents.	
4	Q. Great. Thank you.	
5	And when you wrote "blog posts," what	08:16:41
6	were you referring to there?	
7	A. Our external blog posts. So on our	
8	Newsroom any any announcement we've made that	
9	were relevant.	
10	Q. And what did you understand the focus of	08:16:54
11	your testimony to be today, as you were preparing?	
12	MR. BENJAMIN: Objection to form.	
13	And, Bella, to the extent that answering	
14	that question would require you to disclose any	
15	privileged communications or information, I'd just	08:17:07
16	ask you to carve that out of your answer.	
17	But to the extent that you can answer	
18	Ms. Weaver's question without disclosing privileged	
19	information, you should you should do so.	
20	THE DEPONENT: I understood	08:17:16
21	Q. (By Ms. Weaver) Go ahead.	
22	A. I understood it to be about our our ad	
23	delivery. So targeting and ranking, and the ways	
24	that advertisers can place an ad on Meta.	
25	Q. Okay. So what do you mean by "ad	08:17:32
		Page 23

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1	delivery"?	08:17:50
2	A. So the way our ad system works is that it	
3	is based on the choices advertisers make by	
4	selecting a desired audience and ad settings to	
5	help us understand the setup of their ad. And then	08:18:05
6	there is a secondary step which is about	
7	determining from that eligible audience who will	
8	actually see that ad. That's something we called	
9	ranking.	
10	That the end to end of this system is	08:18:16
11	called ad delivery. So the starting point of an	
12	advertiser creating an ad to the end point of	
13	someone seeing that ad.	
14	Q. And what is the time frame that you	
15	understand you are testifying to today?	08:18:31
16	MR. BENJAMIN: Objection to form.	
17	And same caution, to the extent you can	
18	answer the question without disclosing privileged	
19	information or communications, you should do so.	
20	THE DEPONENT: I understood it to be	08:18:48
21	between the last 10 and 15 years. Over the course	
22	of the last 10 to 15 years.	
23	Q. (By Ms. Weaver) Okay. So 2012 or I	
24	mean, I'll just I'm not to be transparent,	
25	our class period is 2007 to the present.	08:19:02
		Page 24

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1	A. That's what I understood, yes.	08:19:06
2	Q. Okay. Great.	
3	So in 2007, was Facebook engaged in ad	
4	delivery?	
5	A. We did show ads in 2007.	08:19:16
6	Q. And how was it accomplished in 2007, and	
7	how did it change over time, generally?	
8	MR. BENJAMIN: Objection to form.	
9	Compound. Vague.	
10	THE DEPONENT: So advertisers have we	08:19:27
11	it's always been that an advertiser could set up an	
12	ad and give us the creative of what they wanted to	
13	run or to to be for that ad, the content.	
14	Over the last 15 years, the system has	
15	evolved to both provide additional targeting	08:19:48
16	options to advertisers for their selection, the	
17	placement options, the ad ranking, the ad delivery.	
18	Our machine learning has evolved. So a lot of the	
19	system has changed over time.	
20	I think the fundamental pieces of the	08:20:04
21	advertisers' involvement down to a user seeing the	
22	ad somewhere on Facebook have been consistent. And	
23	then over that same period, we've also updated our	
24	transparency tools for users as well as the	
25	controls they have for advertising.	08:20:19
		Page 25

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1	Q. (By Ms. Weaver) So is it possible for	08:20:24
2	you to just lay out generally a chronology of	
3	how let's carve out for a moment the	
4	transparency tools and just talk about ad delivery	
5	and how that changed over time at Facebook	08:20:36
6	beginning in 2007.	
7	MR. BENJAMIN: Objection to form. Scope.	
8	THE DEPONENT: I don't think that I can	
9	lay out a detailed timeline of like specific years	
10	of when machine learning was updated. But I can	08:20:51
11	talk through how that product has evolved, if	
12	that's useful.	
13	Q. (By Ms. Weaver) Great. That would be	
14	great.	
15	A. So over time you can think of our ad	08:21:01
16	delivery as many models that help us optimize and	
17	understand some whether someone would be	
18	interested in an ad. The way those models function	
19	is that we incorporate people's activity on the	
20	site, people's oh or and then across that	08:21:18
21	timeline, also people's activity off of Facebook to	
22	help us understand whether they would be interested	
23	in an ad.	
24	So one of the examples of an update there	
25	would be, in 2014, starting to include activity on	08:21:31
		Page 26

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1	the website or app to help inform ads. And then	08:21:36
2	there have been smaller iterations about the type	
3	of models and how those function in ad delivery	
4	over those years.	
5	Q. In 2007, how did Facebook record users'	08:21:49
6	activity on and off the platform?	
7	MR. BENJAMIN: Objection to form.	
8	Q. (By Ms. Weaver) Or generally the	
9	outside of the class period?	
10	MR. BENJAMIN: Objection to form.	08:22:03
11	Sorry. Lesley, would you mind restating	
12	the question just so it's clear to all of us.	
13	Q. (By Ms. Weaver) In 2007, how did	
14	Facebook record users' activity on and off the	
15	platform?	08:22:13
16	MR. BENJAMIN: Thank you.	
17	THE DEPONENT: Outside of our ad system?	
18	Q. (By Ms. Weaver) For I'm using your	
19	words, you said that well, I'll just say, yes,	
20	for use in ads in ads advertising, yeah.	08:22:33
21	A. Yeah. So	
22	MR. BENJAMIN: Objection objection to	
23	form.	
24	THE DEPONENT: In in 2007, we did not	
25	use offsite, so or what I call offsite but	08:22:47
		Page 27

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1	activity off of Facebook to inform ads. That was	08:22:50
2	something that was introduced in 2014.	
3	Prior to that, we used activity on	
4	Facebook. So that could be information people	
5	provide as part of their profile or the	08:23:01
6	interactions they have on Facebook.	
7	For example, like camp page interacting	
8	with an ad would have informed that. That	
9	that's remained relatively consistent throughout	
10	this period.	08:23:14
11	Q. (By Ms. Weaver) And when you say	
12	"interacting with an ad," what do you mean?	
13	A. That could be an ad click or ad comment.	
14	Q. And just to be specific, when you say	
15	"click," you mean well, what do you mean by	08:23:28
16	"click"?	
17	A. When someone is shown an ad, there is a	
18	call to action that the advertisers also defines in	
19	the setup of their ad. That could be something	
20	like learn more. And they would go to a website,	08:23:42
21	it could be something like like page. It could be	
22	respond to an event.	
23	So any number of those call to actions	
24	usually when I say "click," I mean that the person	
25	actually took that action. They clicked on the	08:23:56
		Page 28

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1	learn more.	08:23:58
2	Q. And, therefore, it's not linked	
3	excessively to example for example, a purchase,	
4	right?	
5	MR. BENJAMIN: Objection.	08:24:06
6	Q. (By Ms. Weaver) It can be anything?	
7	MR. BENJAMIN: Objection to form.	
8	THE DEPONENT: It is not specifically to	
9	mean a purchase.	
10	Q. (By Ms. Weaver) And when you said that	08:24:15
11	Facebook was recording users' on platform activity,	
12	where is it recorded?	
13	What did you mean by that?	
14	MR. BENJAMIN: Objection to form.	
15	THE DEPONENT: It is in order to run	08:24:46
16	our site, we maintain like a we understand that	
17	the actions people take on the site, and that	
18	activity is what we then use for ads.	
19	Q. (By Ms. Weaver) And how is that activity	
20	identified and then used for ads?	08:25:03
21	MR. BENJAMIN: Objection to form.	
22	Compound. Vague.	
23	THE DEPONENT: Can do you mind	
24	clarifying what you mean by "identified"?	
25	Q. (By Ms. Weaver) Sure.	08:25:17
		Page 29

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1	If Facebook User A is acting on the	08:25:18
2	platform, how does Facebook and let's say in the	
3	period 2007 to 2014 how did Facebook identify	
4	which activity to observe and record for use in	
5	ads?	08:25:36
6	MR. BENJAMIN: Objection to form. Vague.	
7	Calls for speculation.	
8	THE DEPONENT: I think it wasn't that	
9	something was recorded specifically for the use in	
10	ads.	08:25:49
11	So as an example, if I liked a page, we	
12	would know that I liked a page. And that was	
13	because also I have when I go to my profile, I	
14	need to see that I liked that page. That's	
15	something that happens outside of ads completely.	08:26:02
16	Ads then our ad system can then use	
17	that activity in order to help inform my future ads	
18	by understanding what my interests might be.	
19	The does that get at what you were	
20	asking?	08:26:21
21	Q. (By Ms. Weaver) Yes.	
22	So when Facebook is using that activity,	
23	was Facebook looking at whether or not that	
24	activity was marked private or public by the user?	
25	MR. BENJAMIN: Objection to form. Scope.	08:26:36
		Page 30

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1	THE DEPONENT: No. Activity on Facebook	08:26:38
2	is we it's not quite differentiated in those two	
3	buckets. And our we did not reference that	
4	explicitly in use for ads.	
5	Q. (By Ms. Weaver) So if I mark let's	08:26:56
6	say I liked a product, but only a restricted	
7	audience had access to that like, did Facebook then	
8	restrict the use of that like in advertising only	
9	in relation to the people with whom I had shared	
10	that like?	08:27:19
11	MR. BENJAMIN: Objection. Vague. Time	
12	period.	
13	THE DEPONENT: I think there are a few	
14	things that I to to unpack there.	
15	So a product, which I understand to mean	08:27:32
16	maybe something that a brand has posted, would be	
17	from like a Facebook page. Those are public.	
18	There is only one setting for that that post.	
19	And so when a user likes it, it is a public action	
20	they are taking, and then we would use that for	08:27:47
21	ads.	
22	I'm not sure if that gets to to the	
23	example you gave.	
24	Q. (By Ms. Weaver) Right. That's so	
25	that's one scenario. But let's assume a scenario	08:27:55
		Page 31

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1	where a friend posts something on the wall and I	08:27:57
2	like it. And that like indicates something about	
3	me.	
4	Does Facebook use that like to decide how	
5	to target me for ads?	08:28:09
6	MR. BENJAMIN: Objection. Form. Vague.	
7	Calls for speculation.	
8	THE DEPONENT: We use people's activity	
9	and it could include activity from liking a post.	
10	It's not that we then target an ad to someone based	08:28:21
11	on that. It is still based on the advertiser's	
12	desired audience.	
13	So the way they've set up the parameters	
14	for their audience. And then the information of	
15	people's activity helps us understand if they would	08:28:33
16	be interested in an ad.	
17	Q. (By Ms. Weaver) When Facebook is using a	
18	user's activity to identify advertiser's desired	
19	audiences, is Facebook limiting users' activity	
20	that is public, or is it also using activity	08:28:53
21	that for which users have restricted the	
22	audience?	
23	MR. BENJAMIN: Objection. Form. Vague.	
24	THE DEPONENT: I today, I do not	
25	believe that we use the actually, there's a	08:29:13
		Page 32

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1	clarification here that's important.	08:29:18
2	We use people's activity not just in	
3	terms of like they the exact action they took,	
4	but also aggregated. So the fact that you were	
5	active on Facebook in the last month is something	08:29:30
6	that we would understand and use in order to inform	
7	an ad.	
8	There isn't a distinction there of	
9	whether or not that activity the fact that you	
10	were active in the last month is public or private.	08:29:41
11	So I I'm not sure that there's a clear way to	
12	answer what you're getting at.	
13	Q. (By Ms. Weaver) So for aggregated	
14	activity, there's no distinction between public and	
15	private. And public and private access	08:29:54
16	activities are all in one bucket; is that fair?	
17	MR. BENJAMIN: Objection. Form.	
18	Misstates. Vague.	
19	THE DEPONENT: There are our the	
20	way people interact with the platform and and	08:30:12
21	what they do on the platform does not fall into	
22	buckets of private and public.	
23	And so are also, when we think of like if	
24	you've been active in the last month, it doesn't	
25	differentiate between those because they're not a	08:30:25
		Page 33

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1	concept within the activity on our platform.	08:30:27
2	Q. (By Ms. Weaver) So in 2014 let's use	
3	the not aggregated example.	
4	In 2014, when a user engaged in a	
5	specific activity and that activity was designated	08:30:41
6	for a restricted audience, meaning something less	
7	than public, did Facebook use that activity to help	
8	curate audiences for advertiser?	
9	MR. BENJAMIN: Objection form.	
10	THE DEPONENT: It's not that curating	08:31:09
11	can curating audiences for advertisers, I'm not	
12	really sure exactly what that means.	
13	If it's that we have a targeting option	
14	and an advertiser has defined their target audience	
15	and then in order to deliver that ad, we use	08:31:25
16	people's activity, and it's not differentiated	
17	between public or private.	
18	Q. (By Ms. Weaver) And is that true for the	
19	entire class period, 2007 to the present?	
20	A. I'm not sure if there have been	08:31:44
21	carve-outs in some manner throughout that. I	
22	think in in a way that maps to private or	
23	public. Because, again, it it's not really	
24	what reflective of our system works.	
25	Q. And when you say "It's not reflective of	08:31:57
		Page 34

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1		
1	how our system works," can you describe what you	08:31:58
2	mean, or can you kind of explain what you mean?	
3	A. Yes. So something such as liking a page,	
4	I think, is what you're referencing as public.	
5	Other areas things like looking at an ad or	08:32:12
6	watching or or or looking at a photo, those	
7	are activity.	
8	I'm not sure how we would designate those	
9	as public or private because it's not something	
10	that's necessarily has a trace that leaves	08:32:25
11	behind. It's something that is activity that is on	
12	our platform. Those are interactions, even if it	
13	isn't a like or a comment.	
14	Q. And are all of those interactions used in	
15	some form for advertising?	08:32:40
16	MR. BENJAMIN: Objection.	
17	THE DEPONENT: No.	
18	MR. BENJAMIN: Form.	
19	Q. (By Ms. Weaver) What are the forms that	
20	are used what are the activities that are used	08:32:46
21	for advertising?	
22	A. We use like page and ad engagement. So	
23	the interactions I was talking about before. We	
24	use whether how someone has interacted with our	
25	products. For example, how they connect to	08:33:02
		Page 35

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1	Facebook. And if they're using browser or mobile	08:33:04
2	and that that type of information. We use	
3	information they provide on their profile.	
4	And then like I was saying, the the	
5	more aggregated statistics of have have they	08:33:20
6	logged in the last month. Are they an active page	
7	user. Are they those are examples.	
8	Q. Does Facebook use, for example,	
9	information about likes that users post for	
10	advertising?	08:33:41
11	A. Can you clarify	
12	MR. BENJAMIN: Objection.	
13	Q. (By Ms. Weaver) Do you know what a like	
14	is?	
15	A. Yes. I I'm not sure what you mean by	08:33:52
16	information about a like. Just that a like	
17	occurred?	
18	Q. Sure.	
19	A. We	
20	Q. Does Facebook use likes for advertising?	08:33:59
21	A. Yes, we do. As an example, page likes	
22	would be something that we use. An ad like would	
23	be also another example.	
24	Q. Does Facebook use likes on other content	
25	for advertising?	08:34:14
		Page 36

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1	A. Yes. I don't think that it is like all	08:34:20
2	likes. But I'm not sure that there is a click or	
3	differentiation of what has been in the system over	
4	the entire from 2007 until to now now.	
5	Q. Did Facebook's policy or practices change	08:34:35
6	with regard to which likes it uses for advertising	
7	over time?	
8	MR. BENJAMIN: Objection to form and	
9	scope.	
10	THE DEPONENT: I what for I	08:34:48
11	don't think that there were like rules that have	
12	been changed. That that's not something I	
13	recall.	
14	Q. (By Ms. Weaver) So if a friend wrote a	
15	post and I liked it, would that be used for	08:35:04
16	advertising at Facebook?	
17	A. That that example would not be used.	
18	Q. Why not?	
19	A. Honestly, I think we have found that the	
20	page and ad engagement, which was the center of all	08:35:20
21	of this, and activity we used up until that up	
22	until the besides that piece, has been helpful	
23	for understanding people's interests and that	
24	wasn't something that was included.	
25	Q. And when you say "advertising," what do	08:35:40
		Page 37

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1	you mean?	08:35:43
2	A. I mean specifically an ad that has been	
3	created by an advertiser and placed through our ad	
4	creation tool, such as ads manager, with a desired	
5	audience and a bid. And then that they pay for the	08:35:58
6	placement of that ad. So when we show that ad,	
7	they pay for that impression.	
8	Q. I would I'm trying to understand what	
9	is excluded by your definition of "advertising" in	
10	term of ways that Facebook is compensated for	08:36:13
11	allowing the targeting of users.	
12	Are there examples of ways in which	
13	Facebook shares information about users that you	
14	think is excluded from the definition of	
15	advertising?	08:36:33
16	MR. BENJAMIN: Objection to form.	
17	Argumentative. Vague.	
18	THE DEPONENT: So my definition is	
19	specifically about the what what is like paid	
20	advertising. I don't I'm not quite sure what	08:36:49
21	you mean in terms of other ways people could access	
22	information. I'm happy to to understand that	
23	better.	
24	Q. (By Ms. Weaver) Okay. So you're	
25	excluding, for example, research from advertising;	08:36:59
		Page 38

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1		
1	is that an example of something you're excluding?	08:37:03
2	MR. BENJAMIN: Objection to form.	
3	Misstates. Argumentative.	
4	THE DEPONENT: Do you mean research such	
5	as someone I'm I'm not I'm not actually	08:37:13
6	sure what you mean by that.	
7	What would be an example?	
8	Q. (By Ms. Weaver) Is there a research	
9	department at Facebook?	
10	A. We do have an internal	08:37:22
11	MR. BENJAMIN: Objection to form.	
12	Objection to form and scope.	
13	THE DEPONENT: We	
14	MR. BENJAMIN: You can answer.	
15	THE DEPONENT: We do have an internal	08:37:29
16	research department, yes.	
17	Q. (By Ms. Weaver) And are you excluding	
18	from your definition of advertising the way that	
19	that research department might use information	
20	about users, in your discussion today?	08:37:39
21	A. Yes. I	
22	MR. BENJAMIN: Objection to form.	
23	Objection to form and scope.	
24	THE DEPONENT: Yes, I am. But I'm not	
25	sure I understand how our internal research	08:37:52
		Page 39

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1	department is related to an an a nonMeta	08:37:54
2	advertiser either.	
3	Q. (By Ms. Weaver) Right. Okay. I'm just	
4	trying to understand if there are certain ways in	
5	which information about users is recorded by	08:38:04
6	Facebook and still shared, but that is excluded	
7	from your definition definition of advertising?	
8	A. I wouldn't consider our internal	
9	internal research department sharing information.	
10	It is they are a part of Meta.	08:38:22
11	Q. Okay. And you're not capable of	
12	testifying about the research department; is that	
13	right?	
14	MR. BENJAMIN: Objection to form. The	
15	characterization. And also to note that the scope	08:38:37
16	of the deposition was the subject of numerous	
17	meet-and-confers and correspondence between	
18	(Simultaneously speaking.)	
19	MS. WEAVER: I just asked for an answer.	
20	THE DEPONENT: That's correct. I'm not	08:38:50
21	an expert on the research department or the breadth	
22	of research that we do and don't do.	
23	Q. (By Ms. Weaver) Got it.	
24	So you've defined advertising as when an	
25	ad is created by an advertiser and placed through	08:39:22
		Page 40

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1	our ad creation tool, such as ads manager.	08:39:24
2	If an ad is not created by the	
3	advertiser, does Facebook itself create ads?	
4	A. We do not create ads for a third party.	
5	We we do we are also an advertiser on our own	08:39:40
6	platform. And then we also use our creation tools	
7	to create that ad.	
8	Q. And are you testifying on that topic	
9	today?	
10	A. About our our own ads?	08:39:55
11	Q. Yes.	
12	A. To the extent that it relates to our	
13	targeting and ad delivery, yes, because it's the	
14	same system. In terms of like our marketing	
15	efforts, probably not. No, I don't think I'm an	08:40:11
16	expert on that.	
17	Q. Okay. And you also said you were	
18	limiting advertising and I'm just trying to	
19	parse it out to "an ad is created by an	
20	advertiser and placed through our ad creation	08:40:28
21	tool."	
22	So are you excluding examples where the	
23	ad is not placed through the ad creation tool or is	
24	that just part of in your process?	
25	A. That's just part of the process. It's	08:40:42
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1	not an exclusion. There aren't it's not a way	08:40:43
2	to exclude other ads.	
3	Q. Okay. And then you said they pay for the	
4	placement of that ad, or they pay for an	
5	impression; is that right?	08:40:56
6	A. Yes.	
7	Q. Okay. Is that the only thing that third	
8	parties pay Facebook for with regard to	
9	advertising?	
10	MR. BENJAMIN: Objection to form.	08:41:10
11	THE DEPONENT: Do you mean in terms of	
12	of an ad that they've tried to create and deliver.	
13	Q. (By Ms. Weaver) Yes.	
14	A. Yes. Is they pay for the impression	
15	delivered or or the the fact that we have	08:41:28
16	shown that ad to someone is is what an	
17	advertiser is paying for.	
18	Q. Is it fair to say that different metrics	
19	can be established for purposes of triggering	
20	payment in an agreement with an advertiser?	08:41:44
21	A. I'm not sure what you mean. Do you mind	
22	clarifying.	
23	Q. Do advertiser pay for can they agree	
24	to pay for views or impressions or clicks, or some	
25	other metric?	08:42:00
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1	A. They they choose the objective of	08:42:02
2	their ad, and that is part of what defines what	
3	their the action that they're effectively paying	
4	for. So you can when when they choose that	
5	objective, there's there are various options.	08:42:16
6	One of them might be people's clicks and views. So	
7	if like a reach or brand awareness would probably	
8	be looking for views. And those are the actions	
9	that take.	
10	The when when someone sets up their	08:42:30
11	ads their ad, they are given the option	
12	look I said to set their objective and their	
13	bid. And then that helps determine the payment	
14	when the ad is actually shown and that action is	
15	taken.	08:42:45
16	Q. Okay. If we can, I'd like to break down	
17	some of the definitions here, just to back it up a	
18	little bit.	
19	So could you identify the general buckets	
20	of actions taken for which Facebook receives	08:42:57
21	payment from advertisers?	
22	MR. BENJAMIN: Objection to form.	
23	THE DEPONENT: Actions taken by by	
24	people viewing the ad or by the advertiser?	
25	I'm sorry.	08:43:12
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		l l

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1	Q. (By Ms. Weaver) By the users.	08:43:14
2	A. So I believe that payment so	
3	viewing an ad is what we charge an advertiser for.	
4	It is the impression. There are ways to cut the	
5	cost that helps an advertiser understand whether it	08:43:31
6	was the what the the the cost per action	
7	was.	
8	So for example, if we show an ad 100	
9	times, there will be a cost per impression. If	
10	we that ad was only clicked 20 times, there will	08:43:48
11	be a cost per click.	
12	Those are the the breakdown of	
13	the payments that the advertiser is then invoiced	
14	and that they make to us is based on the	
15	performance of that ad.	08:44:03
16	Q. And when you say "view," what do you	
17	mean?	
18	A. If I'm going through my newsfeed and I	
19	see an ad as a user, that is an impression. It's	
20	a or a view, sorry view is probably more	08:44:16
21	colloquial. But it is the impression of me seeing	
22	the ad.	
23	Q. And how does Facebook know that a user	
24	saw the ad?	
25	A. Because we know that a user is on	08:44:30
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1	Facebook, and they are scrolling through their	08:44:33
2	newsfeed.	
3	Q. And is Facebook then recording	
4	specifically what each user views?	
5	A. We do know what people view.	08:44:43
6	Q. And does Facebook record that so it can	
7	record it to the third party for payment purposes?	
8	MR. BENJAMIN: Objection to form.	
9	THE DEPONENT: I'm not sure if can you	
10	walk me through maybe "record" is throwing me	08:45:01
11	here. And what	
12	Q. (By Ms. Weaver) Okay.	
13	A do you mean by report back to the	
14	advertiser?	
15	Q. I'm using "record" because you used	08:45:07
16	record.	
17	A. Okay.	
18	Q. What did you mean by "record" when you	
19	used it?	
20	A. Just that it is logged. So we have	08:45:14
21	when someone goes in their newsfeed and they see a	
22	ad, we know that they saw an ad. We do use that to	
23	say one person saw this ad. And when we share	
24	information back to the advertiser, we share	
25	aggregated reporting information so they would know	08:45:30
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1	in aggregate how many people saw an ad. We don't	08:45:32
2	share that "I, Bella, saw the ad."	
3	Q. But in its base, Facebook must have a	
4	record that you, Bella, saw the ad because somehow	
5	you've got to aggregate, right?	08:45:45
6	A. Yes. We do know that I saw the ad. But	
7	we don't share that with the advertiser.	
8	Q. Did that change over time?	
9	A. No, not to my knowledge.	
10	Q. Okay.	08:46:03
11	A. Sorry, Matt.	
12	Q. So from 2007 to the present, did Facebook	
13	at any point in time share with advertisers who	
14	specifically saw what ad?	
15	A. Our performance and reporting to	08:46:14
16	advertisers is aggregated. And it explains the	
17	performance of their ads, not the people who saw	
18	their ads. And that's been consistent.	
19	Q. And has it the size of the aggregated	
20	groups that Facebook reported to advertisers	08:46:36
21	changed over time?	
22	A. I I would assume it has. I don't know	
23	what that timeline looks like or the the	
24	changes, specifically.	
25	Q. In general, is it fair to say that the	08:46:57
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1	groups have gotten larger in part as an attempt to	08:47:00
2	protect the identification and reidentification of	
3	users, when reporting to advertisers who has seen	
4	what advertisement?	
5	MR. BENJAMIN: Objection to form.	08:47:14
6	THE DEPONENT: Again, I don't know	
7	exactly what those changes are or the trend in	
8	to to confirm that.	
9	Q. (By Ms. Weaver) Did Facebook have a	
10	policy about that?	08:47:26
11	MR. BENJAMIN: Objection to form.	
12	THE DEPONENT: I don't think that there's	
13	been an explicit consistent policy about that, in	
14	terms of over the entire period.	
15	Q. (By Ms. Weaver) Are you aware of any	08:47:45
16	policies that relate to it during any time period?	
17	MR. BENJAMIN: Objection to form. Scope.	
18	THE DEPONENT: For ads, we we we do	
19	aggregate. I don't think that or I'm not aware	
20	of a a one threshold that is that happens	08:48:02
21	throughout.	
22	I think that those are evaluations with	
23	the privacy and policy and legal teams that help	
24	establish it for that product and what makes sense	
25	in terms of potential reidentification or not.	08:48:18
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1	Q. (By Ms. Weaver) Who on those teams is	08:48:23
2	knowledgeable about this topic?	
3	A. I would expect our privacy team would be	
4	and I I don't have a name off the top of my	
5	head.	08:48:33
6	Q. Okay. If you think of a name during the	
7	course of the deposition, will you circle back?	
8	A. Yeah.	
9	Q. Thank you.	
10	When you say "that product" you said	08:48:48
11	the privacy and legal team establish a threshold	
12	for that product, what did you mean by "product,"	
13	in general?	
14	A. Yes. Sorry. That was very internal	
15	speak.	08:49:02
16	That would be, as an example, something	
17	that I consider a product or our targeting options.	
18	So one of those options could be a product.	
19	In this case, I was thinking more	
20	specifically about our ad reporting UI and the	08:49:16
21	the metrics that we provide there as a product.	
22	Q. When you said "ad reporting UI," you mean	
23	ad reporting user interface; is that right?	
24	A. As an advertiser, when I create the ad in	
25	ads manager, as an example, the interface that I go	08:49:34
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1	back to, to understand how that ad is performing.	08:49:36
2	Q. And what metrics are you referring to	
3	when you said the metrics we provide is a product	
4	in the UI?	
5	A. So as an example, the number of	08:49:49
6	impressions an ad has received. The number of	
7	clicks it's received.	
8	Q. And to return a little bit to where we	
9	are and just close it out.	
10	Are there any other metrics that Facebook	08:50:04
11	reports to advertisers?	
12	A. Outside of performance metrics?	
13	Q. Yes.	
14	MR. BENJAMIN: Objection to form.	
15	THE DEPONENT: No.	08:50:15
16	Q. (By Ms. Weaver) And over the class	
17	period, is that true as well?	
18	MR. BENJAMIN: Objection. Form.	
19	THE DEPONENT: Again, related to ads	
20	reporting, it is based on the performance of those	08:50:31
21	ads. And I'm not I don't think that there are	
22	other metrics that we report outside of the	
23	performance of their ads.	
24	Q. (By Ms. Weaver) And with regard to	
25	performance metrics, does has Facebook ever	08:50:43
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1	provided any information other than clicks and	08:50:48
2	views?	
3	A. The cost per clicks is an example. The	
4	payment or the the how much it has cost	
5	them to run that ad. There's a series I'm	08:50:58
6	happy maybe that's I don't know the full	
7	list, but I'm happy to get make sure that	
8	there's a screenshot provided of the UI.	
9	Q. What is a cost per click?	
10	A. A cost per click is over the amount an	08:51:16
11	advertiser has spent. If they spent five dollars	
12	and they got 20 clicks in the delivery of that ad,	
13	the cost per click is literally the the amount	
14	spent per click. So the average cost per click.	
15	Q. And what is payment per click?	08:51:34
16	A. It's not a payment per click. It's just	
17	the total they spend divided by the how much	
18	how many clicks they got. And then their total	
19	payment is how much they're charged for that ad.	
20	Q. Okay. In terms of the targeting	08:51:52
21	categories advertisers can identify, can you	
22	generally describe all of them?	
23	A. Yeah, absolutely.	
24	MR. BENJAMIN: Objection. Vague.	
25	THE DEPONENT: For so just as a	08:52:22
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1	starting point, when we say "identify," I I	08:52:24
2	this what I'll describe is what's in what we	
3	provide to advertisers for them to set their	
4	desired audience.	
5	So when an advertiser goes to create an	08:52:35
6	ad, like I said, they give us the content of their	
7	ad. So what they want it to look like when it's	
8	run on Facebook. And then they set up their	
9	objective and the budget, the pacing, et cetera.	
10	And then they get to the the audience portion.	08:52:49
11	And there they're given options that we	
12	often bucket into what's called core audiences.	
13	And that might be demographics and location. So	
14	they're selecting whether they want to reach an age	
15	range and what that age range is. And then whether	08:53:05
16	they want to reach everyone or men or women.	
17	And then they select the location. So	
18	for example, if they want to reach all of the state	
19	of Washington or or kind of within that, what	
20	realm, where they want their ad to be shown.	08:53:20
21	Outside of our core audiences, we also	
22	have what is called like detailed targeting. And	
23	that's that's based off or that's those	
24	are examples are interests or behaviors.	
25	So interest might be things like hobbies,	08:53:35
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1	topics, public figures that people have engaged	08:53:39
2	with. And then behaviors might be the way they	
3	connect to Facebook, their purchase behavior. So	
4	whether they've bought things before. If they	
5	interact with games, as an example.	08:53:52
6	And then there are custom custom	
7	audiences which largely break down into customer	
8	lists. So an advertiser providing information	
9	about their existing customers in order to reengage	
10	them. Website custom audiences and app custom	08:54:08
11	audiences. And then our engagement custom	
12	audiences, which is to reengage people who already	
13	interacted with your your page on Facebook.	
14	Q. (By Ms. Weaver) So in your	
15	understanding, is custom audiences a subset of	08:54:28
16	detailed targeting?	
17	A. No. We usually consider it separate.	
18	Q. And why is it separate?	
19	A. I mean, in large part because of the way	
20	we've structured the UI and how our conversations	08:54:47
21	with advertiser have been about the flow of it.	
22	It's also somewhat different in terms of the	
23	information that backs those those targeting	
24	options.	
25	So detail targeting, like I said, is	08:55:00
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1	is are things like interests and behaviors.	08:55:02
2	Those are based on activity. Whereas, something	
3	like a custom audience is really much more specific	
4	to that advertiser. It's information about their	
5	existing customers. And so it's it's somewhat	08:55:12
6	distinguished both from an advertiser mental model	
7	but also in the UI.	
8	Q. Okay. So I'm hearing that there are	
9	well, in the is engagement custom audiences a	
10	subset of custom audiences?	08:55:30
11	A. Yes.	
12	Q. And is that based on a different	
13	information that's backing it?	
14	A. Yes. So just to clarify, the custom	
15	audiences, they're those kind of three types,	08:55:47
16	each one of those would have different information	
17	that backs it.	
18	Q. And for the record, those three types	
19	are?	
20	A. Customer lists. And then website custom	08:56:01
21	audiences. App custom audiences. And then the	
22	last kind of bucket is the engagement custom	
23	audiences.	
24	Q. And what's an engagement custom audience?	
25	A. When an advertiser has a page page on	08:56:14
		Page 53

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1	Facebook, people will like interact, follow that	08:56:16
2	page. The engagement custom audience is a way for	
3	an advertiser to say "I want the audience of my ad	
4	to be the people who have chosen to follow my	
5	page."	08:56:29
6	Q. Okay.	
7	A. And so on on Meta or on Facebook	
8	activity to to for an advertiser to reengage	
9	with their existing audience on Facebook.	
10	Q. So recap, is it fair to say that you've	08:56:44
11	identified three kinds of targeted advertising core	
12	audiences to detail targeting and three custom	
13	audiences?	
14	A. Yes.	
15	MR. BENJAMIN: Objection to form.	08:57:00
16	Q. (By Ms. Weaver) And other than those	
17	three, are you aware of any other kind of targeted	
18	advertising that has occurred at Facebook from 2007	
19	to the present?	
20	MR. BENJAMIN: Objection to form.	08:57:10
21	THE DEPONENT: Other kinds of advertising	
22	usually fit in with those three if those are how	
23	we've characterized and captured our targeting	
24	options for many years.	
25	Q. (By Ms. Weaver) And when you say "for	08:57:26
		Page 54

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1	many years," can you identify be a little bit	08:57:27
2	more specific?	
3	A. I think from 2007 onwards. I mean,	
4	that those that's how we describe the	
5	categories of the types of targeting.	08:57:36
6	Q. And when you say "other kinds of	
7	advertising," are you thinking of other specific	
8	examples that you would slide into one of these	
9	three buckets?	
10	A. As an example, we used to have partner	08:57:49
11	categories. That's something that would have fit	
12	under the detailed targeting and has since been	
13	deprecated.	
14	Q. Anything other than partner categories	
15	that you're thinking of?	08:58:03
16	A. That was what I was thinking of	
17	specifically. There have been I mean, changes	
18	within what we offer over the years, but I think	
19	the the structure of the three types is pretty	
20	consistent.	08:58:17
21	Q. And I should have said this at the	
22	outset. But you're here testifying on behalf of	
23	Facebook today, right, you're aware of that?	
24	A. Yes.	
25	Q. Okay. So when you're saying "you," it's	08:58:26
		Page 55

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1	the Facebook you, unless you are telling me it's	08:58:29
2	your personal knowledge, correct?	
3	A. Correct.	
4	Q. And that applies to your previous	
5	testimony and your testimony going forward,	08:58:35
6	correct?	
7	A. Correct.	
8	Q. Okay. Thank you.	
9	What do you understand partner categories	
10	to mean?	08:58:44
11	A. Partner categories were targeting options	
12	that were built off of agreements with data brokers	
13	where we might not have had that information. And	
14	so it was a way to connect in information that	
15	advertisers found relevant to their ads and provide	08:58:58
16	that as a way for them to define their audience on	
17	Facebook.	
18	Q. And in this instance, when you define	
19	advertisers, are you including the data brokers or	
20	Facebook as well?	08:59:15
21	MR. BENJAMIN: Objection to form and	
22	scope.	
23	THE DEPONENT: I the advertiser is the	
24	person buying the ad.	
25	I'm not sure if that answers your	08:59:28
		Page 56

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1	question.	08:59:29
2	Q. (By Ms. Weaver) And sometimes did	
3	Facebook buy an ad?	
4	A. We do run our ads on our own platform,	
5	yes.	08:59:35
6	Q. And do you know if Facebook bought ads	
7	through partner categories?	
8	A. So it's not	
9	MR. BENJAMIN: Objection to form and	
10	scope.	08:59:44
11	THE DEPONENT: It's not that you're	
12	buying an ad through a partner category. The	
13	partner category, as an example, like grocery	
14	shoppers, is one of the options in the creation of	
15	the ad through our our ad creation, so like ad	08:59:57
16	manager.	
17	It would have been something someone can	
18	select to define their audience. When we create an	
19	ad, we also use those options. So I I honestly	
20	can't definitively say whether we did or didn't	09:00:11
21	ever use a partner category.	
22	Q. (By Ms. Weaver) And how long were	
23	partner categories in existence?	
24	A. They were deprecated in	
25	MR. BENJAMIN: Objection objection to	09:00:23
		Page 57

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1	form and scope.	09:00:24
2	THE DEPONENT: They were deprecated in	
3	2018. And they were brought onto the platform	
4	several years earlier. But I don't know the exact	
5	year.	09:00:39
6	Q. (By Ms. Weaver) Who made the decision to	
7	deprecate partner categories?	
8	MR. BENJAMIN: Objection to form and	
9	scope.	
10	THE DEPONENT: This was not a singular	09:00:48
11	person's decision to deprecate partner categories.	
12	Q. (By Ms. Weaver) Okay. But who who at	
13	Facebook, in general, whether it's a team or a	
14	name, decided to deprecate partner categories?	
15	A. This would have been	09:01:01
16	MR. BENJAMIN: Objection to form and	
17	scope.	
18	THE DEPONENT: a decision across the	
19	ads product policy and legal cross-functional team.	
20	Q. (By Ms. Weaver) And what's your	09:01:10
21	understanding of why that decision was made?	
22	MR. BENJAMIN: Objection to form and	
23	scope.	
24	THE DEPONENT: My understanding is that	
25	we we felt that over time people's expectations	09:01:20
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1	had evolved and that partner categories weren't	09:01:23
2	something that we wanted to offer any longer.	
3	Q. (By Ms. Weaver) How were partner	
4	categories not consistent with people's	
5	expectations?	09:01:36
6	MR. BENJAMIN: Objection to form. Calls	
7	for speculation. Vague and scope.	
8	THE DEPONENT: My understanding is it's a	
9	type of data coming in. And though although it	
10	was transparent, there was decision to not offer	09:01:52
11	those any longer.	
12	Q. (By Ms. Weaver) And you're saying the	
13	partner category is an example of detailed targeted	
14	advertising, right?	
15	A. It it falls into that bucket, yes.	09:02:08
16	Q. And and you're testifying about	
17	targeted advertising today, right?	
18	A. About our ad targeting and ad delivery,	
19	yes.	
20	Q. Okay. And as you sit here today, can you	09:02:19
21	explain why Facebook deprecated the kind of	
22	detailed targeted advertising that was called	
23	partner categories?	
24	MR. BENJAMIN: Objection to form. Scope.	
25	THE DEPONENT: We consistently look at	09:02:41
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1	the targeting options we provide. We've deprecated	09:02:43
2	a number of options, to partner categories is an	
3	example. That assessment is often done across the	
4	group, including with our product teams. And this	
5	wasn't a product they wanted to continue to	09:02:54
6	support.	
7	Q. (By Ms. Weaver) That's very general and	
8	it doesn't actually help me understand. So let me	
9	just try I'll ask a different question. Forget	
10	all the other examples.	09:03:06
11	With regard to partner categories, why	
12	did Facebook what were the reasons that Facebook	
13	decided to deprecate them?	
14	MR. BENJAMIN: Objection to form. Scope.	
15	And to the extent that answering	09:03:21
16	Ms. Weaver's question would require you to disclose	
17	privileged information, please carve that out of	
18	your answer.	
19	To the extent you can answer the	
20	question, please do so.	09:03:31
21	THE DEPONENT: I think I've answered the	
22	question to to that extent.	
23	I mean, we look at our products and we	
24	we determine which ones to continue supporting.	
25	Partner categories was one that was then	09:03:45
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1	deprecated.	09:03:46
2	Q. (By Ms. Weaver) What particular	
3	characteristics of partner categories did Facebook	
4	consider and then decide the reason for deprecating	
5	it?	09:03:56
6	A. They were sorry. Go ahead, Matt.	
7	MR. BENJAMIN: Objection to form. Scope.	
8	And the same caution regarding privilege.	
9	THE DEPONENT: These were a place where	
10	we had data in. It was part of the decision, but	09:04:10
11	I this was just a product that was no longer	
12	going to be supported.	
13	Q. (By Ms. Weaver) So I'm I'm trying to	
14	understand the reasons for the decision, and you	
15	keep just telling me what the decision was.	09:04:22
16	So let me try it this way. When Facebook	
17	decides to deprecate a product, what are the	
18	considerations?	
19	MR. BENJAMIN: Objection to form.	
20	Q. (By Ms. Weaver) Let me restate it.	09:04:39
21	When Facebook decides to discontinue an	
22	advertising product, what are the reasons, in	
23	general?	
24	A. We'll look at their use, whether it's	
25	performing well. Is it helping deliver ads that	09:04:52
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1	are relevant and interesting. Whether advertisers	09:04:55
2	want it or not.	
3	And then also our understanding like	
4	from the policy side, we'll also understand whether	
5	or not these are areas that that other groups	09:05:05
6	use and industry standard.	
7	I mean, there's a number of	
8	considerations, all kind of from everyone's	
9	expertise. And I'm sure that's what was applied in	
10	those conversations as well.	09:05:23
11	Q. Does Facebook consider user expectations	
12	in reaching such decisions?	
13	A. Yeah, absolutely. We we work to	
14	understand what our what our user base would	
15	want and and how they would prefer our product	09:05:36
16	to be built as well.	
17	Q. Did Facebook consider user expectations	
18	when considering whether or not to deprecate	
19	partner categories?	
20	MR. BENJAMIN: Objection to form. Scope.	09:05:48
21	And the same instruction regarding privilege.	
22	THE DEPONENT: Yes. I think because it	
23	is always a consideration across all of our	
24	decisions.	
25	Q. (By Ms. Weaver) Who specifically would	09:06:06
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1	know why Facebook deprecated partner categories?	09:06:07
2	A. Again, it was a group decision. I mean,	
3	across the cross-functional group. I'm happy to	
4	to work with the team to figure out who might be	
5	who might have been part of that conversation,	09:06:21
6	specifically.	
7	Q. Yes. We would like to know by name who	
8	was involved in the decision to deprecate partner	
9	categories.	
10	And as you sit here today, you can't	09:06:31
11	provide that information; is that right?	
12	MR. BENJAMIN: Objection to form.	
13	Misstates. And objection to scope.	
14	THE DEPONENT: I've provided from the	
15	targeting side the way that we assess these	09:06:42
16	decisions. And I I'm not sure if there's much	
17	more I could say on that one.	
18	Q. (By Ms. Weaver) Okay. Just to be clear,	
19	for the record, I'm specifically asking if you can	
20	identify by name any one person involved in the	09:06:54
21	decision to deprecate partner categories.	
22	Can you?	
23	MR. BENJAMIN: Objection to form and	
24	scope.	
25	THE DEPONENT: A singular person or a	09:07:05
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		I I

## Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 65 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	team?	09:07:07
2	Q. (By Ms. Weaver) Any any any names	
3	that you can think of.	
4	A. I mean, Andrew Howard was involved.	
5	Q. Anyone else?	09:07:23
6	A. Like I said, there wasn't there	
7	were	
8	(Simultaneously speaking.)	
9	MR. BENJAMIN: The same the same	
10	objections.	09:07:28
11	THE DEPONENT: There were multiple teams	
12	involved. I don't know the full list of the entire	
13	cross-functional team that was involved, as they	
14	are involved when we introduce a new product or	
15	deprecate other products.	09:07:40
16	Q. (By Ms. Weaver) Okay. But I'm not	
17	asking for an exhaustive and complete list. I	
18	literally was asking if you can identify even a	
19	handful of people or one name.	
20	Other than Mr. Howard, can you identify	09:07:49
21	anybody else who was involved in the decision to	
22	deprecate partner categories?	
23	A. Amy Dunn.	
24	MR. BENJAMIN: Objection. Objection	
25	sorry, Bella. Objection to form.	09:07:58
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1	THE DEPONENT: No, please.	09:08:00
2	MR. BENJAMIN: Asked and answered. And	
3	scope.	
4	THE DEPONENT: Amy Dunn. She was a	
5	former she's now a former employee. She was one	09:08:08
6	of the product marketers for targeting. So I would	
7	assume was directly involved.	
8	Q. (By Ms. Weaver) Anyone else?	
9	A. Honestly, from the top of my head, for	
10	that exact decision, I I wouldn't be able to	09:08:24
11	tell you many more names.	
12	Q. Who is Andrew Howard?	
13	A. He's on our policy team.	
14	Q. And when you say "policy team," what do	
15	you mean?	09:08:39
16	A. The across ads. And then also other	
17	products, there are there's a policy counterpart	
18	for that product. They participate in product	
19	development, product decisions. They work as part	
20	of the cross-functional team involved in developing	09:08:53
21	products. And Andrew is an example for ads.	
22	Q. And when you're saying "policy," what do	
23	you mean?	
24	A. I mean providing I mean I'm sorry.	
25	I'm not totally sure what you mean by	09:09:11
		Page 65

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1	that question.	09:09:14
2	Q. You said there's a policy counterpart for	
3	that product.	
4	What do you mean by policy?	
5	A. So in this case, it's privacy policy.	09:09:19
6	It's the name of the team that Andrew is on and	
7	that I'm on. And we are we work with a product	
8	team as they develop products.	
9	Q. And how many people are on the privacy	
10	policy team currently?	09:09:33
11	A. Currently, I would, I think, ballpark	
12	probably 170. 170 people.	
13	Q. When was the privacy policy team first	
14	established?	
15	A. A long time ago. I'm I'm not sure of	09:09:53
16	the exact date when our team was established.	
17	Q. Was there a privacy policy team in 2012?	
18	A. Yes, there was.	
19	Q. And who was on it?	
20	A. An example would be Rob Sherman or	09:10:07
21	Erin Egan.	
22	Q. And in 2012, how many people were on the	
23	privacy policy team?	
24	A. I can't tell you that with high	
25	confidence. I'm not sure of the size of the team	09:10:23
		Page 66

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1	at that point.	09:10:25
2	Q. Was it 170 people?	
3	A. No. The team has grown in the last	
4	12 years.	
5	Q. Was it more than 20?	09:10:33
6	A. I I would say yes. But I also don't	
7	know exactly how we have re-org'd over that time	
8	period. So it might have been a slightly different	
9	named team with different scope and yes.	
10	MR. BENJAMIN: Ms. Weaver, we've been	09:10:54
11	we've just been going for well over an hour, if	
12	we're coming up to a good time for a break?	
13	MS. WEAVER: Yeah. No problem. Let me	
14	just close this out, if you don't mind.	
15	Is that okay?	09:11:03
16	MR. BENJAMIN: Of course.	
17	Q. (By Ms. Weaver) Okay. You said Amy Dunn	
18	is a former; is that right?	
19	A. Yes. Amy Dunn left, I believe, two years	
20	ago, a year ago.	09:11:11
21	Q. And where does she work now, if you know?	
22	A. I don't know.	
23	Q. And it's D-U-N-N?	
24	A. Yes, that's correct.	
25	Q. And how is her first name spelled?	09:11:19
		Page 67

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1	A. A-M-Y.	09:11:21
2	Q. And other than those two individuals, can	
3	you identify anybody else who was involved in the	
4	decision to deprecate partner categories?	
5	A. Rob Sherman would have been aware and	09:11:34
6	probably involved. Victoria Chen Norland was Amy's	
7	counterpart and partner, also on the marketing	
8	side. They would have been involved.	
9	And then I I mean, that's that's	
10	who I can think of.	09:11:54
11	MS. WEAVER: Okay. Great. We can take a	
12	break. Go off the record.	
13	THE VIDEOGRAPHER: Okay. We're off the	
14	record. It's 9:12 a.m.	
15	(Recess taken.)	09:12:29
16	THE VIDEOGRAPHER: Okay. We're back on	
17	the record. It's 9:39 a.m.	
18	Q. (By Ms. Weaver) Ms. Leone, you	
19	understand you're still under oath, correct?	
20	A. Yes.	09:39:19
21	Q. Okay. When we broke, I had asked you if	
22	you could remember anybody else, other than	
23	Andrew Howard, Amy Dunn, Rob Sherman and	
24	Victoria Chen Norland who were involved in the	
25	decision to deprecate partner categories.	09:39:36
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1	Do you recall that?	09:39:38
2	A. You had asked that, yes.	
3	Q. Can you identify anyone other than those	
4	four individuals who reached that decisions?	
5	MR. BENJAMIN: Objection to form.	09:39:46
6	Objection to scope.	
7	And I'm going to instruct the witness not	
8	to answer on the basis of privilege.	
9	MS. WEAVER: She can't identify who was	
10	involved in the discussion on the basis of privacy	09:39:59
11	if she personally knows?	
12	MR. BENJAMIN: Well, I think this	
13	question has been asked and answered.	
14	But Ms. Leone, to the extent you can	
15	answer Ms. Weaver's question without revealing	09:40:08
16	privileged information or communications, you may	
17	do so.	
18	THE DEPONENT: I know that it was a	
19	cross-functional team, which is what I noted.	
20	Those are a few people that I knew were involved.	09:40:21
21	And beyond that, it's attorney-client privilege.	
22	Q. (By Ms. Weaver) Do you have personal	
23	knowledge of any other individuals who were	
24	involved in the decision?	
25	MR. BENJAMIN: Objection. Scope.	09:40:35
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1	And same caution regarding privilege.	09:40:40
2	THE DEPONENT: Those are the the	
3	people I can think of. And beyond that, it was a	
4	very large group and as many of our product	
5	decisions are.	09:40:51
6	Q. (By Ms. Weaver) How large was the group?	
7	A. I can't	
8	MR. BENJAMIN: Objection objection to	
9	form.	
10	THE DEPONENT: I don't know an exact	09:40:59
11	number.	
12	Q. (By Ms. Weaver) Okay. Let's return to	
13	your testimony about the three categories of	
14	targeted advertising.	
15	You listed core audiences, detailed	09:41:09
16	targeting and custom audiences, correct?	
17	A. Yes.	
18	Q. With regard to core audiences, how long	
19	has that program been in use?	
20	Is it fair to call it a program?	09:41:24
21	A. I think that's fair. I would use the	
22	word "product," but yes.	
23	The parts that we categorize into core	
24	audiences I think I mentioned age, gender,	
25	location have been part of our targeting option	09:41:41
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1	since we offered started to offer targeting	09:41:44
2	options.	
3	Q. And what other demographics, other than	
4	age, gender and location, are used in core	
5	audiences?	09:41:54
6	A. Those are those are the core audiences	
7	demographics.	
8	Q. And with regard to gender, what do you	
9	mean?	
10	A. An advertiser has the option has three	09:42:15
11	kind of toggles and they choose between reaching	
12	all, reach men, reaching women.	
13	Q. And with regard to location, what options	
14	are afforded advertisers?	
15	A. When an advertiser goes to create their	09:42:35
16	ad in that location section, it effectively is a	
17	map. They can choose to select where they want	
18	their ad to be shown.	
19	That can be by clicking on the map. That	
20	can be by entering a a place or or a city,	09:42:50
21	a state. They can keyword search to match where	
22	they want their ad to be shown.	
23	Q. And how granular is the location	
24	selection?	
25	MR. BENJAMIN: Objection to form.	09:43:07
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1	THE DEPONENT: An advertiser can input	09:43:12
2	really kind of whatever granularity, to an extent.	
3	There is then a radius and that radius cannot be	
4	smaller than one mile.	
5	Q. (By Ms. Weaver) And when was the	09:43:26
6	restriction that the radius cannot be smaller than	
7	one mile implemented?	
8	A. I believe that has been in place	
9	throughout. I I don't believe that there was a	
10	time where we didn't have that.	09:43:48
11	Q. So to be clear, from 2007 forward, it was	
12	Facebook's policy that for core audiences, the	
13	location could not be less than a one-mile radius;	
14	is that right?	
15	A. So the the advertiser's selection of	09:44:04
16	where to show their ad, like that selection in	
17	terms of this city, et cetera, I I don't I	
18	I believe that there has always been so where	
19	those options have been provided, I think there has	
20	always been the radius, but I would honestly have	09:44:27
21	to check on if the UI has changed in the way they	
22	select that.	
23	Q. Was it ever possible for an advertiser to	
24	provide map coordinates to target users?	
25	MR. BENJAMIN: Objection objection to	09:44:42
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1	form.	09:44:43
2	THE DEPONENT: They don't provide a map	
3	coordinate. They can select like I was saying,	
4	there's a map. They can select a point. But it's	
5	not that they are selecting users. They are	09:44:55
6	selecting where they want their ad to be shown.	
7	Q. (By Ms. Weaver) And could they do that	
8	with the specificity of a map coordinate at any	
9	point in time, from 2007 to the present?	
10	A. With the radius that I mentioned.	09:45:09
11	Q. And where would you go to confirm that	
12	the one-mile radius was honored from 2007 to the	
13	present?	
14	MR. BENJAMIN: Objection to form.	
15	THE DEPONENT: I I would probably	09:45:28
16	discuss with our engineers if they can cross-check	
17	that. I'm not sure that we have code from 20	
18	2007.	
19	Q. (By Ms. Weaver) Was there an enforcement	
20	mechanism to ensure that the one-mile radius was	09:45:41
21	enforced?	
22	MR. BENJAMIN: Objection to form. Vague.	
23	THE DEPONENT: There the selection	
24	from the app to enforce the selection from the	
25	advertiser?	09:45:59
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1	Q. (By Ms. Weaver) To enforce Facebook's	09:46:01
2	policy that there had to be a one-mile radius.	
3	A. It was how location it's how location	
4	targeting is rendered. It's not a subsequent	
5	enforcement.	09:46:22
6	Q. And so it was through the code that the	
7	one-mile radius is enforced; is that your	
8	testimony?	
9	A. Yes. It's it's through how an	
10	advertiser selects location.	09:46:31
11	Q. And so what information does Facebook	
12	rely on to determine who's within the selected	
13	location?	
14	A. When a user uses Facebook, we get	
15	location signals within that. So for example, if	09:46:57
16	they have location services turned on, we get that	
17	information. We understand where people are also	
18	based on how they check in. So when someone says	
19	"I'm at the airport," we would understand and get	
20	that information. And other ways that people	09:47:14
21	connect through connect and use our platform	
22	tells us where they are.	
23	Q. What are the other ways that users	
24	connect and use the platform that tells Facebook	
25	where they are?	09:47:28
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1	A. IP would be an example.	09:47:29
2	Q. You're referring to the IP address?	
3	A. Of how they're connecting in, yes.	
4	Q. And for the record, what's an IP address?	
5	A. It's from your device how you're	09:47:40
6	where you're you're accessing a website for	
7	connecting to the Internet.	
8	Q. So in addition to check in and IP	
9	address, how else can Facebook divine where users	
10	are to use that information for core audience	09:47:55
11	location selection?	
12	A. I think I I want to make sure that	
13	we're clarifying the distinction here.	
14	An advertiser selects where they want	
15	their ad to be shown. Once they've created that	09:48:06
16	ad, we then determine who matches that audience,	
17	those parameters.	
18	To do that, we use people's activity and	
19	how they've connected to Facebook, including like	
20	their location services and the other pieces that I	09:48:23
21	mentioned there.	
22	Is that what you were getting at?	
23	Q. Right.	
24	And so I'm asking, to make that	
25	determination about whether users are within the	09:48:33
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1	selected location, what information does Facebook	09:48:37
2	use?	
3	A. It's what I answered. It's location	
4	services on their device. How they connect to	
5	Facebook. And other another example would be if	09:48:49
6	they check in. People can also provide on their	
7	profile where they live.	
8	Those that's an example of information	
9	we use to determine their part they should meet	
10	those audience parameters.	09:49:06
11	Q. And when you say "location services,"	
12	what does that refer to?	
13	A. It's a setting on devices that of	
14	on your iPhone, for example, that lets Facebook	
15	understand where you are.	09:49:20
16	Q. Does Facebook use any other information	
17	to determine the location of users so that users	
18	are targeted through core audiences by location?	
19	A. Yes. As I mentioned, check-ins can	
20	contribute to knowing where someone is. Same thing	09:49:39
21	as where they designate their hometown or where	
22	they live on their profile.	
23	Q. When a user initiates a post, for	
24	example, does the metadata reflect where the user	
25	was when the user made that post?	09:50:00
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1	MR. BENJAMIN: Objection to form.	09:50:07	
2	THE DEPONENT: The activity there		
3	honestly, I that's pretty far outside of the		
4	ad-specific piece. If we if we collect that		
5	related to nonads, someone posting something.	09:50:29	
6	If they were to the example I was		
7	trying to give was like a page check-in, or where I		
8	specifically post "I'm at the airport," because it		
9	translates into a check-in.		
10	I'm not sure if that's what what	09:50:44	
11	what you were indicating.		
12	Q. (By Ms. Weaver) No, it's not.		
13	Let's give it let me give a different		
14	example.		
15	If somebody posts a picture, does the	09:50:52	
16	metadata on the picture indicate where the picture		
17	was taken?		
18	And if it does, is that the kind of		
19	information that Facebook uses to identify a user's		
20	location for use in core audience location	09:51:04	
21	selection?		
22	MR. BENJAMIN: Objection to form.		
23	Compound. Vague. Scope.		
24	THE DEPONENT: If someone makes a post,		
25	they have connected to Facebook in some manner. We	09:51:19	
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			- 1

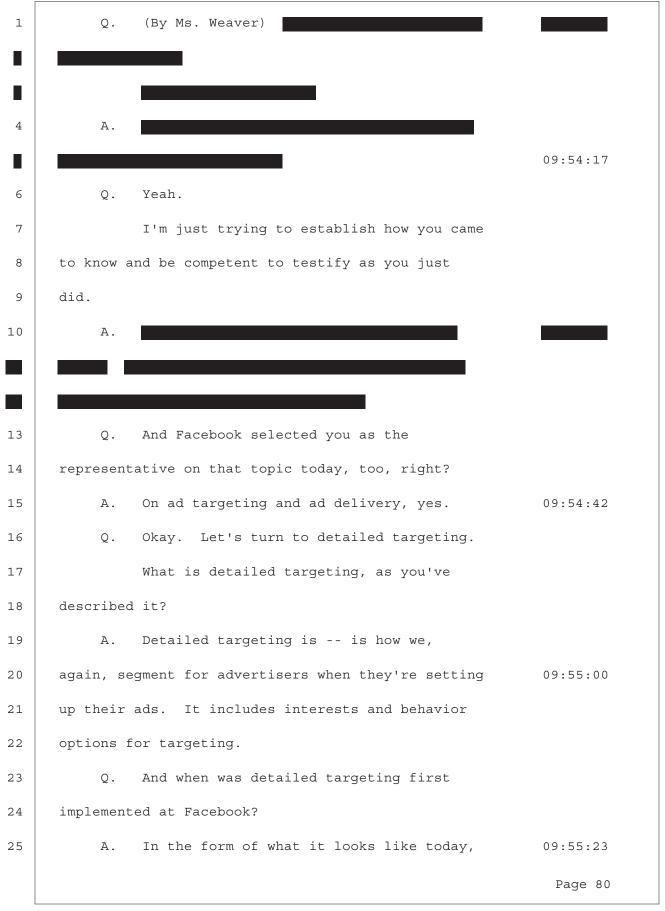
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1	do use information about how someone connects to	09:51:23
2	Facebook to understand where they are, and that is	
3	used also for ads.	
4	Q. (By Ms. Weaver) And when you say "they	
5	have connected to Facebook in some manner," what do	09:51:36
6	you mean?	
7	A. I mean you have logged in or or you're	
8	on a browser and you're using Facebook.	
9	Q. And does Facebook distinguish, for core	
10	audience location advertising, whether that photo	09:51:50
11	that was posted was marked public or private?	
12	A. These are very different concepts.	
13	The core audiences is simply how an	
14	advertiser selects the parameter for their ad.	
15	When we then determine if someone is eligible to	09:52:07
16	see that ad, whether they meet it, it is based on	
17	people's activity on Facebook. And it's not	
18	differentiated in public or private because, again,	
19	that's not reflective of how someone's activity on	
20	Facebook is categorized.	09:52:23
21	Q. With regard to the demographic age used	
22	in core audiences, what is the information Facebook	
23	uses to determine someone's age?	
24	A. That's based on the the age they	
25	provide at sign-up. So we require a user to	09:52:41
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1	provide their age. And that's also what we use to	09:52:44
2	determine if they should see an ad.	
3	Q. And how does Facebook determine user's	
4	gender; the same answer?	
5	A. Yeah. Yes.	09:52:54
6	Q. And roughly, currently	
9	MR. BENJAMIN: Objection to form and	
.0	scope.	09:53:16
.1	THE DEPONENT:	
.3	Q. (By Ms. Weaver) How what's your	
.4	understanding of	
		09:53:27
.6	MR. BENJAMIN: Objection	
.7	THE DEPONENT: Again	
.8	MR. BENJAMIN: to form and scope.	
.9	THE DEPONENT:	
23	And to be clear,	
د ،	And to be crear,	
		09.53.56
		09:53:56 Page 79

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		1
1	it would have been, I believe, between like 2010	09:55:24
2	about 2010. That's that I think it is	
3	important to note the evolution of what that looks	
4	like in the UI has changed over time. But the idea	
5	of having interests and behaviors, I think, was	09:55:42
6	about then.	
7	Q. And what team and people were responsible	
8	for commencing the detailed targeting at Facebook?	
9	A. Our ads product team.	
10	Q. And who was on the ads product team who	09:55:59
11	was part of that decision in 2010, if you know?	
12	A. I don't know an individual from the ads	
13	product team specifically who was part of that	
14	decision.	
15	Again, these are often large teams that	09:56:13
16	create road maps to to build the tools we offer	
17	advertisers or any other product at at Facebook.	
18	Q. Why did Facebook decide to engage in	
19	detailed targeting on or around 2010?	
20	A. One of our core goals is to ensure that	09:56:33
21	the advertising experience is interesting and	
22	relevant to people. Enabling that is one way to	
23	do that is to help understand what they might be	
24	interested in. And then an advertiser can select	
25	who they think the the audience that might be	09:56:50
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1	most relevant for their product.	09:56:53
2	Interest, which is part of detailed	
3	targeting, is an example of where that was to	
4	further the goal of having more interesting ads	
5	than if it was broadly targeted and relative	09:57:03
6	irrelevant to the person seeing it.	
7	Q. And so how did detailed targeting help	
8	accomplish that goal?	
9	A. It enabled someone, an advertiser, to	
10	select that they wanted to reach people who have an	09:57:21
11	interest in something based on continued engagement	
12	with that topic.	
13	Q. And specifically, what are the topics	
14	available in detailed advertising let's start	
15	with today at Facebook?	09:57:45
16	A. Within interests, there's there's	
17	quite a few. I believe about 60,000 interests are	
18	provided today. Those vary between hobbies, TV	
19	shows, public figures.	
20	Any number of topics that that we've	09:57:59
21	seen consistent engagement on that would be	
22	relevant to reach someone because they're	
23	interested in it.	
24	Q. And how is this list of 60,000 provided	
25	to advertisers?	09:58:11
		Page 82
		I I

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1	A. In the ad creation flow, an advertiser	09:58:14
2	can browse through a structured list. So for	
3	example, can click and say "I'm looking for things	
4	related to fashion" or "entertainment," or they can	
5	use the keyword search and input a search term.	09:58:30
6	And then we'll render the ones that match that	
7	search term and they can select individual	
8	interests from there.	
9	Q. If a category is not on the list, can an	
10	advertiser propose a new interest category and then	09:58:45
11	use the target users?	
12	MR. BENJAMIN: Objection to form.	
13	THE DEPONENT: Do you mean through	
14	through the ad creation?	
15	Q. (By Ms. Weaver) Or at all.	09:59:02
16	A. There isn't a way for an advertiser to	
17	select something that doesn't exist and then	
18	immediately enable targeting on that. That's	
19	not that's not a functionality we offer.	
20	Q. But can an advertiser email their contact	09:59:18
21	at Facebook and say "We'd like to target" based on	
22	this criteria?	
23	Can you make that happen?	
24	MR. BENJAMIN: Objection.	
25	THE DEPONENT: I'm sure an advertiser	09:59:28
		Page 83

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1	MR. BENJAMIN: Objection objection to	09:59:30
2	form.	
3	THE DEPONENT: An advertiser could email	
4	that. It is not something that we implement.	
5	Q. (By Ms. Weaver) And why is that?	09:59:38
6	A. The interests we provide are the areas	
7	where we've seen continued engagement. It's not	
8	based off of an advertiser, a somewhat ad hoc	
9	advertiser request.	
10	Q. Does so you've testified that to date	09:59:52
11	it's roughly 60,000 interest categories; is that	
12	right?	
13	A. Yes, that's correct.	
14	Q. And can you describe over time perhaps	
15	how that list has accrued?	10:00:09
16	MR. BENJAMIN: Objection to form.	
17	THE DEPONENT: The the list has	
18	like I was saying, is based on topics that we see	
19	people engaging with. So we've both added and	
20	removed interests over time to help ensure that	10:00:26
21	they remain relevant and actually useful for people	
22	to see content they want to engage with and for	
23	advertisers to reach audiences that they're trying	
24	to reach.	
25	Q. (By Ms. Weaver) So is that based on both	10:00:43
		Page 84

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1	input from advertisers and internal Facebook	10:00:45
2	analyses?	
3	A. It's not based on input from advertisers	
4	in the example we gave about an email.	
5	But if we understand that there is high	10:01:02
6	demand to to reach people interested in	
7	entertainment and we see that that is something	
8	that people engage with, it it could be an area	
9	we expand into. That's relatively common. And	
10	and like market research, to understand like what	10:01:20
11	is a useful tool.	
12	Q. And when you say "we understand that	
13	there is high demand," you mean that advertisers	
14	are interested in certain categories and will pay	
15	Facebook for that; is that fair?	10:01:35
16	MR. BENJAMIN: Objection to form.	
17	THE DEPONENT: It's that we want to build	
18	tools that actually enable an advertiser to create	
19	an ad and also that is relevant to people. And so	
20	we do that the way many products are developed,	10:01:51
21	through market research, understanding what people	
22	need. And then also what what we would or	
23	wouldn't be able to provide.	
24	Q. (By Ms. Weaver) Are there any other	
25	inputs into creating the interest categories that	10:02:08
		Page 85

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1	you can refer to?	10:02:10
2	MR. BENJAMIN: Objection to form. Vague.	
3	THE DEPONENT: It's again, it's based	
4	on our understanding of what is would be a	
5	useful addition. We haven't added new interests	10:02:23
6	recently. It's because the interest list is	
7	relatively stable at this point.	
8	You could imagine a scenario where if	
9	there is a new TV show, it might make sense to add	
10	that in based on the engagement we're seeing. But	10:02:39
11	that would be an example of how the process occurs.	
12	Q. (By Ms. Weaver) And when you say "useful	
13	addition," you mean useful for purposes of	
14	advertising; is that right?	
15	A. Both for advertisers to reach a relevant	10:02:55
16	audience and for people to see ads that are	
17	interesting and relevant to them.	
18	Q. And how does Facebook determine what	
19	users think is interesting and relevant to them?	
20	A. Our interests are based on activity on	10:03:12
21	Facebook. For example, continuous engagement with	
22	a topic. So if I like many pages about interior	
23	design, you might assign you might say that I'm	
24	interested in interior design, and that would be an	
25	interest. So it's that type of topic-based	10:03:31
		Page 86

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1	understanding.	10:03:35
2	Q. Does Facebook also record users' viewing	
3	of videos?	
4	A. We determine just sorry.	
5	MR. BENJAMIN: Objection to form.	10:03:51
6	THE DEPONENT: We if a page posts a	
7	video and someone interacts with it, including	
8	viewing it, we would consider that an interaction	
9	with that page and the content of that page.	
10	So going back to the somewhat random	10:04:05
11	interior design example, if there is an interior	
12	design page and I like it, I follow it, and I watch	
13	the videos on that page, that could contribute to	
14	my interactions with that page, yes.	
15	Q. (By Ms. Weaver) Does Facebook track how	10:04:22
16	long users have watched a specific video?	
17	MR. BENJAMIN: Objection to form and	
18	scope.	
19	THE DEPONENT: We do. It's not a	
20	specific piece of information that that I I	10:04:39
21	don't think that there is a specific threshold in	
22	that scenario that we leverage for like ads	
23	interests, if that's what yeah.	
24	Q. (By Ms. Weaver) So to determine what	
25	categories are targeted, Facebook also looks at	10:05:04
		Page 87

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1	users' activity to determine whether or not those	10:05:08
2	categories would exist in the first place; is that	
3	fair?	
4	MR. BENJAMIN: Objection to form.	
5	THE DEPONENT: I'm sorry. I think I I	10:05:18
6	need you to clarify a little bit on the question.	
7	Q. (By Ms. Weaver) No problem.	
8	We're discussing how these 60,000	
9	interest categories were created, right?	
10	A. Yup.	10:05:30
11	Q. And one component was whether or not	
12	there's high demand because advertisers are	
13	interested in it, right?	
14	A. Based on our market research, yes.	
15	Q. And another component is whether or not	10:05:41
16	users are seeing the ads Facebook thinks they would	
17	like to see, correct?	
18	A. Another for interest creation,	
19	specifically?	
20	Q. Sure.	10:05:57
21	A. We in order to generate interests, we	
22	determine what are the topics that people engage	
23	with to and like, what are groups like	
24	content on pages, con classification, those	
25	topics that people have engaged with.	10:06:15
		Page 88

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1	If there is a topic that nobody is	10:06:19
2	engaging with, it wouldn't have been something we	
3	came up with because it is based on on	
4	understanding the topics that people engage with to	
5	provide an interest.	10:06:31
6	Q. So is it fair to say that Facebook	
7	analyzes users' activity to determine what	
8	categories of interests are available for	
9	advertisers to target them; is that fair?	
10	A. At the	10:06:46
11	MR. BENJAMIN: Objection objection to	
12	form.	
13	THE DEPONENT: It's fair to say that we	
14	look at the content people engage with to determine	
15	their interest. And those can include them in an	10:06:59
16	interest that we also provide to advertisers when	
17	they're setting the parameters for their audience.	
18	Q. (By Ms. Weaver) Okay. In general, can	
19	you identify, roughly, how many of these interest	
20	categories for detailed targeting that were	10:07:22
21	available in 2012?	
22	A. Roughly, several hundred thousand.	
23	Q. In 2012, there were several hundred	
24	thousand and today there are 60,000?	
25	A. Correct.	10:07:45
		Page 89

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1		
1	Q. So over time, the number of interest	10:07:46
2	categories has decreased rather dramatically; is	
3	that right?	
4	MR. BENJAMIN: Objection to form.	
5	THE DEPONENT: It has decreased over	10:07:56
6	over a number of years and we have both added in	
7	and removed interests.	
8	Q. (By Ms. Weaver) Does Facebook have a	
9	record of the categories for interest targeting,	
10	for detailed targeting that were available in 2012?	10:08:09
11	A. So because our system has evolved, I	
12	there isn't a comprehensive or day-by-day view of	
13	all the interests. We know what what is	
14	provided in the product today and I there	
15	isn't a a full list over many years.	10:08:34
16	Q. Is it possible to roughly piece together	
17	what those categories are over time?	
18	MR. BENJAMIN: Objection to form.	
19	THE DEPONENT: Not with very high	
20	accuracy.	10:08:53
21	Q. (By Ms. Weaver) Did Facebook tell users	
22	in 2010 what interest categories it was making	
23	available to advertisers for detailed targeting?	
24	A. Users can access the the ads manager.	
25	It's a self-serve. Everybody is able to see	10:09:19
		Page 90

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1	what what's there. And so a user would have	10:09:24
2	been able to also look and see what are interest	
3	categories that are available.	
4	Q. So it's your testimony that in 2012, a	
5	user could have looked up and seen the several	10:09:37
6	hundred thousand interest categories that	
7	advertisers were using to target them?	
8	MR. BENJAMIN: Objection to form and	
9	misstates.	
10	THE DEPONENT: Yes. So yes, to the	10:09:50
11	objection. Apologies.	
12	The they would be able to see what are	
13	all the options an advertiser can reach. Because	
14	our ad creation flow, such as ads manager, is	
15	self-serve and open to the public to look at. So	10:10:07
16	any user could go in and say here are all the	
17	interests an advertiser can select. It is not an	
18	indication that they are all associated with one	
19	user.	
20	Q. (By Ms. Weaver) Meaning a user could not	10:10:23
21	determine which interest he or she had specifically	
22	been targeted for, correct?	
23	A. We introduced	
24	MR. BENJAMIN: Objection objection to	
25	form. Vague.	10:10:35
		Page 91

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1	THE DEPONENT: Today users can see the	10:10:38
2	interest they are associated with. And we've had	
3	that for a number of years.	
4	Q. (By Ms. Weaver) And when did that	
5	commence?	10:10:47
6	A. 2014, where we launched our ad	
7	preferences.	
8	Q. And beginning in 2014, could users see	
9	all of the interests that they were actually	
10	targeted for?	10:11:00
11	A. They could see the interests that were	
12	associated with them, that they were part of, that	
13	were being used by advertisers.	
14	Q. And could they see all of those interests	
15	or was it just a an overview?	10:11:14
16	A. Do you mean immediately at launch or over	
17	time?	
18	Q. At any point in time.	
19	MR. BENJAMIN: Objection	
20	THE DEPONENT: Yes.	10:11:28
21	MR. BENJAMIN: Objection to form.	
22	THE DEPONENT: I over the years and	
23	today, a user can open ad preferences and see all	
24	of the interests that are associated with them that	
25	are available for targeting.	10:11:42
		Page 92

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1	Q. (By Ms. Weaver) And when did that	10:11:45
2	functionality first become effective, which is to	
3	say, that a user could view every single interest	
4	for which they have been targeted for detailed	
5	advertising?	10:11:56
6	A. In 2014, we launched ad preferences. It	
7	began with the interests that were actively being	
8	used, so that had an ad running against them, and	
9	then rolled out to include all interests that were	
10	targetable.	10:12:13
11	That would have been likely over the	
12	course of 2014. I don't know the exact month.	
13	Q. And does Facebook generate interest	
14	categories based on off-platform activity?	
15	A. Interest are based on on-site activity.	10:12:29
16	Q. Only on platform?	
17	A. Yes.	
18	Q. Does do users have the capability to	
19	decline being targeted for a specific interest?	
20	A. Yes.	10:12:48
21	Q. And when was that first implemented?	
22	A. In 2014.	
23	Q. And how does Facebook enforce that a user	
24	is not targeted based on a specific interest?	
25	A. When a user chooses to remove themself	10:13:08
		Page 93

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1	from an interest, they are no longer included in	10:13:11
2	that interest. And so any ad that has that	
3	interest, as part of their audience parameters, the	
4	user would not be included in that audience.	
5	Q. And are you familiar with the concept of	10:13:24
6	opt in versus opt out?	
7	A. Yes.	
8	Q. And what's your understanding of what	
9	those words mean?	
10	A. It my understanding would be that the	10:13:36
11	choices either you are in it and you are you're	
12	given the opportunity to opt out. So you're making	
13	a choice to remove yourself from a state where	
14	you're in it. And then opt in would be the	
15	opposite, you're not in it and you're given the	10:13:50
16	choice to enter.	
17	Q. And why did Facebook decide that users	
18	should opt out rather than opt in to interests for	
19	detailed targeting?	
20	A. We understand that people want to see	10:14:03
21	relevant ads. It is part of the experience on	
22	Facebook. Otherwise they would see irrelevant ads.	
23	Interest is one way to do that. And so we provided	
24	people with interests and gave them the opportunity	
25	to see those interests and then remove themselves.	10:14:18
		Page 94

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1	Q. Are you aware of internal studies at	10:14:22
2	Facebook that concluded, in fact, users would	
3	prefer to opt in as opposed to opt out?	
4	MR. BENJAMIN: Objection to form and	
5	scope.	10:14:35
6	THE DEPONENT: For ads, I'm not aware of	
7	a study that specifically looks at an opt in versus	
8	out opt preference for interests.	
9	Q. (By Ms. Weaver) Are you aware of any	
10	studies in general that discuss opt in versus opt	10:14:47
11	out preferences for users?	
12	MR. BENJAMIN: Objection to scope.	
13	THE DEPONENT: Across all of Facebook?	
14	Q. (By Ms. Weaver) Well, you answered	
15	your answer was very specific and I'm trying to	10:14:59
16	understand why.	
17	You said "For ads, I'm not aware of a	
18	study that's specifically looks at opt in or opt	
19	out" for ads interest.	
20	So I'm just trying to ask, are you aware	10:15:10
21	of a study discussing opt in or opt out in general?	
22	MR. BENJAMIN: Objection	
23	THE DEPONENT: No.	
24	MR. BENJAMIN: Objection to scope.	
25	MS. WEAVER: Let's go off the record real	10:15:32
		Page 95

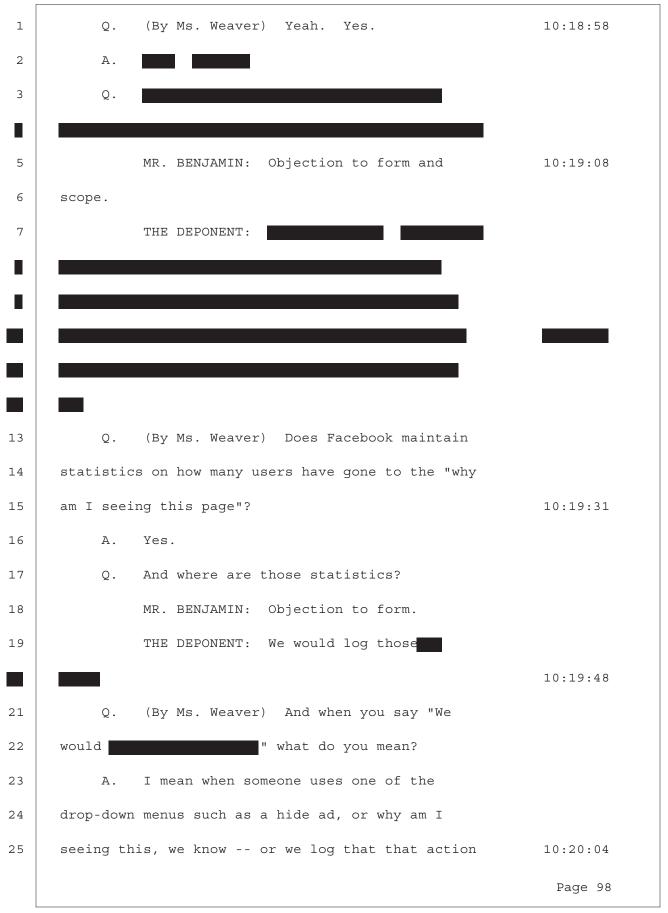
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1	quick. I'll fix it.	10:15:34
		10.13.34
2	(Court Reporter initiates discussion off	
3	the record.)	
4	THE VIDEOGRAPHER: Okay. We're off the	
5	record. It's 10:15 a.m.	10:15:36
6	(Recess taken.)	
7	THE VIDEOGRAPHER: Okay. We're back on	
8	the record. It's 10:16 a.m.	
9	Q. (By Ms. Weaver) Are you aware of	
10	internal discussions at Facebook in regard to	10:17:00
11	whether or not users would want to opt in or opt	
12	out to certain kinds of detailed targeted	
13	advertising?	
14	MR. BENJAMIN: Objection to scope.	
15	THE DEPONENT: I am not aware of	10:17:12
16	discussions on those preferences.	
17	Q. (By Ms. Weaver) Do you know how the	
18	decision was made that Facebook would require users	
19	to opt out, rather than opt in, to interest	
20	categories of detailed targeted advertising?	10:17:26
21	MR. BENJAMIN: Objection to form. Vague	
22	and scope.	
23	THE DEPONENT: The product was built	
24	because we knew these or because these were	
25	areas that people had already engaged with. And we	10:17:44
		Page 96

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1	knew that they were interested within them. And so	10:17:46
2	the control reflects that by giving them the	
3	ability to remove themself from it. It was by	
4	design.	
5	Q. (By Ms. Weaver) So in the beginning, do	10:17:56
6	you know how many users reviewed the hundreds of	
7	thousands of interest categories and deselected	
8	themselves?	
9	MR. BENJAMIN: Objection to form.	
10	THE DEPONENT: Just to be clear, each	10:18:13
11	user was not associated with all the interest	
12	categories. They wouldn't there it wouldn't	
13	have been that they had hundreds of thousands of	
14	their interests.	
15	Once we rolled out ad preferences, I I	10:18:26
16	don't know the exact number of users who who	
17	chose to remove themself from an interest when that	
18	was rolled out.	
19	Q. (By Ms. Weaver) Can you identify anyone	
20	you're aware of who has ever chosen to engage in	10:18:40
21	that process?	
22	MR. BENJAMIN: Objection to form and	
23	scope.	
24	THE DEPONENT: Do you mean specifically	
25	to remove themself from an interest?	10:18:56
		Page 97

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1	has been taken.	10:20:08
2	Q. And for what time period has that	
3	activity been	
4	MR. BENJAMIN: Objection to form. Vague.	
5	THE DEPONENT: Over we we log	10:20:25
6	have logged that activity that's I since	
7	WAIST launched.	
8	Did is that does that answer your	
9	question?	
10	Is that what you were asking?	10:20:37
11	Q. (By Ms. Weaver) When you say "since we	
12	launched," you mean 2007 or 2014?	
13	A. WAIST launched in 2014. Why Am I Seeing	
14	This was launched in 2014.	
15	Q. Oh.	10:20:53
16	A. And so once it became a product, we began	
17	to log when when someone would access it.	
18	Q. So for the record, you're using an	
19	acronym, WAIST, which stands for Why Am I Seeing	
20	This; is that right?	10:21:06
21	A. Yes. Correct.	
22	Apologies. I thought I defined it	
23	earlier. That's my mistake.	
24	Q. Perhaps I missed it.	
25	Okay. Are there other activities that	10:21:16
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1	users engage in that affect whether or not they are	10:21:25
2	targeted by certain interests that are	
4	MR. BENJAMIN: Objection to form.	
5	THE DEPONENT: Interests are based on	10:21:41
6	people's activity. So for example, if they	
7	consistently engage with a page or ad, or any form	
8	of like aggregated continuous engagement with a	
9	topic is what adds someone to an interest. If they	
10	weren't doing that, then they wouldn't be added to	10:21:57
11	it.	
12	So the people's page page likes are	
13	logged And that's an example of activity	
14	that would also contribute to an interest.	
15	Q. (By Ms. Weaver) In addition to page	10:22:17
16	likes, what other kinds of activities are	
	about users that you're aware of?	
18	A. For interests?	
19	Q. In general. For interest. And, yes, in	
20	general.	10:22:30
21	A. Again, people's activity on the platform	
22	is So if I had a friend or if I	
23	add something to my profile, that's something we	
24	store	
25	Q. Do you count Facebook Messenger activity	10:22:48
		Page 100

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1	as activity on the platform in your answers?	10:22:52
2	A. Yes.	
3	Q. Are where are users' Facebook	
4	Messenger messages logged?	
5	MR. BENJAMIN: Objection to form and	10:23:04
6	scope.	
7	THE DEPONENT: This is pretty far outside	
8	of ad specific.	
9	The fact that someone uses Messenger is	
10	I think that that's what you're	10:23:17
11	getting at. And if they initiate threads, it would	
12	be logged there, too.	
13	Q. (By Ms. Weaver) And when you say "they	
14	initiate threads," what do you mean?	
15	A. If I create	10:23:30
16	MR. BENJAMIN: Objection to scope.	
17	THE DEPONENT: Creating a thread with	
18	Matt, for example, would be something that we log.	
19	Q. (By Ms. Weaver) And so what does the log	
20	reflect?	10:23:40
21	Does it reflect the whole thread or just	
22	the fact that a thread was initiated at a certain	
23	time with certain users?	
24	MR. BENJAMIN: Objection to form and	
25	scope.	10:23:52
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1	THE DEPONENT: This is something I don't	10:23:54
2	know. This is pretty far outside ads.	
3	Q. (By Ms. Weaver) So this activity for	
4	Facebook Messenger is used to create interests	
5	in used in any form of advertising, not just	10:24:05
6	limited to detailed interests but in general?	
7	MR. BENJAMIN: Objection to form.	
8	THE DEPONENT: To separate out the	
9	portions of that question, interests are based on	
10	activity on the platform. But page and ad	10:24:21
11	activity, Messenger is not part of that for	
12	interests.	
13	Generally, across ad delivery, we use	
14	information about how people use Facebook to inform	
15	what ad to show them. So if we know that someone	10:24:37
16	has consistently messaged pages, we might be more	
17	likely to show them an ad that is has a message	
18	objective.	
19	So I think that answer is that what	
20	you're getting at?	10:24:55
21	Q. (By Ms. Weaver) Yes, that's exactly it.	
22	Does Facebook also look at the content of	
23	Messenger messages to determine what interests	
24	users might have to target them?	
25	A. No.	10:25:07
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1	Q. And has Facebook ever done that?	10:25:08
2	A. No.	
3	Q. But if they message about a page, or a	
4	group, would that information be used to target	
5	them?	10:25:21
6	A. Would you mind clarifying what you mean	
7	by "message about."	
8	Q. Well, you testified so if we know that	
9	somebody has consistently messaged messaged	
10	pages, what did you mean?	10:25:35
11	A. I meant specifically reached out to a	
12	page via Messenger.	
13	Q. Okay. And would that also is that	
14	also true for groups?	
15	A. You can't message a group	10:25:46
16	Q. Okay.	
17	A or the let me make sure that	
18	we're we're kind of talking this about the	
19	same thing.	
20	So the group product, which is this is a	10:25:55
21	group on Facebook and I join it, that isn't	
22	connected in in the I think in the way that	
23	you're thinking about it with Messenger. You don't	
24	message into a group in the same way. And we don't	
25	use message content from like between friends to	10:26:15
		Page 103

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1	inform an ad.	10:26:17
2	Q. What if you're so if you referenced a	
3	page in the Messenger communication, Facebook will	
4	use that information, correct?	
5	A. Between no. It is specifically if I,	10:26:30
6	Bella, choose to message Nike's page, we would know	
7	that I interacted with that page. And that is	
8	something that can inform my ads because it's an	
9	interaction with a page.	
10	Q. Understood.	10:26:46
11	Does Facebook use information in Facebook	
12	messages to calculate users' desire to be targeted	
13	with a certain kind of ad?	
14	MR. BENJAMIN: Objection to form.	
15	THE DEPONENT: The content of a message	10:27:21
16	between friends on through Messenger is not used	
17	to inform ads. It would not be used to predict	
18	someone's interest or whether or not they want to	
19	see an ad.	
20	Q. (By Ms. Weaver) Do you know if it's used	10:27:35
21	for research?	
22	MR. BENJAMIN: Objection to form and	
23	scope.	
24	THE DEPONENT: I do not.	
25	Q. (By Ms. Weaver) And why isn't the	10:27:49
		Page 104

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1	content of a message not used to inform ads?	10:27:50
2	A. We haven't historically used it. It's	
3	not an area we've we've explored. So it's not	
4	part of why we the signals we use for ads.	
5	Q. Does Facebook consider whether or not	10:28:10
6	Facebook Messenger messages might be considered	
7	private by users in making a decision not to use it	
8	to target users and ads?	
9	MR. BENJAMIN: Objection to form and	
10	scope.	10:28:23
11	THE DEPONENT: That's not the framing	
12	we've used. We haven't used Messenger content.	
13	It's not something that we've explored for to	
14	to incorporate into ads.	
15	Like I said, we use interactions with	10:28:38
16	pages and ad content to inform ads interests and	
17	then activity generally on the platform.	
18	Q. (By Ms. Weaver) And I'm trying to	
19	understand why Facebook does not use Messenger	
20	messages to frame interest-based targeting of	10:28:53
21	users.	
22	MR. BENJAMIN: Objection to form and	
23	scope.	
24	MS. WEAVER: I'll reask the question.	
25	Q. (By Ms. Weaver) So can you explain why	10:29:08
		Page 105

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1	Facebook does not use Facebook Messenger	10:29:09
2	information to target users with ads?	
3	MR. BENJAMIN: Objection to form. Asked	
4	and answered. And outside the scope.	
5	THE DEPONENT: It it hasn't been an	10:29:20
6	area that we've built out. It hasn't been proven	
7	to be something that we want to do or is valuable.	
8	We have so far built our interests off of	
9	engagements engagement and interactions with	
10	pages and ads, and the information people provide	10:29:36
11	us.	
12	Q. (By Ms. Weaver) When you say "It hasn't	
13	been proven to be something that we want to do or	
14	is valuable," how did Facebook prove that?	
15	A. Like I said, we haven't.	10:29:49
16	Q. Is has Facebook engaged in any	
17	analysis as to whether or not using information	
18	shared by users in Facebook Messenger would be	
19	valuable in identifying their interests?	
20	A. No, not that I'm aware of.	10:30:07
21	Q. Do you think a consideration that	
22	Facebook might engage in is whether or not using	
23	information from Facebook Messenger messages would	
24	invade users' privacy expectations?	
25	MR. BENJAMIN: Objection to	10:30:33
		Page 106

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1	THE DEPONENT: You said	10:30:33
2	MR. BENJAMIN: Objection to form. Calls	
3	for speculation. Vague. Outside the scope.	
4	THE DEPONENT: Across the board, we think	
5	about whether people have specific expectations,	10:30:47
6	whether or not this is something that they would	
7	understand or not. That that's a consideration	
8	always.	
9	Q. (By Ms. Weaver) And I'm asking	
10	specifically about Facebook Messenger and whether	10:30:59
11	you believe that Facebook considered whether or not	
12	allowing information communicated in Facebook	
13	Messenger messages to be used for advertising or	
14	other purposes would invade users' expectations of	
15	privacy?	10:31:18
16	MR. BENJAMIN: Objection to form.	
17	THE DEPONENT: We haven't speculated	
18	about any specific users and whether or not they	
19	would find that to be an invasion of privacy.	
20	We use activity on the platform, like	10:31:31
21	pages and ads, to inform interests, and the ads	
22	people see. And and that and that's what	
23	we're transparent about to users.	
24	Q. (By Ms. Weaver) I'm still not just	
25	getting an answer to the specific question.	10:31:50
		Page 107

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1	Can you state one way or another whether	10:31:52
2	or not Facebook considered users' expectations of	
3	privacy in Facebook Messenger messages in	
4	determining whether or not to use information	
5	contained in them to target users with ads?	10:32:03
6	A. What I'm struggling with is this assumes	
7	that there was a specific decision. And my point	
8	is that it has this is the content of ads	
9	of of messages is not used in ads. We use other	
10	activity on the platform.	10:32:21
11	Q. And how does Facebook decide what	
12	activity on the platform it is using for ads?	
13	A. There are a number I mean, we're	
14	we're trying to build a system that delivers ads	
15	that people are interested in.	10:32:43
16	One of the things we've seen that that	
17	is useful and that we use are people's engagement	
18	with pages and ads, and their activity that shows	
19	what they might want to see more content of.	
20	And so when we introduce interests, as an	10:32:58
21	example, that explored aggregating that engagement	
22	to be a topic-based and and similarly, like as	
23	product as as teams think about the future of	
24	what ads look like, they would look at market and	
25	industry practices and what people want to see and	10:33:18
		Page 108

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1	how we could help enable that. I don't think that	10:33:21
2	there's a set framework.	
3	MS. WEAVER: Okay. I'm going to move	
4	into another topic. We could take a break now or	
5	we can continue.	10:33:41
6	It's up to you, Ms. Leone. I don't know	
7	how you're feeling.	
8	THE DEPONENT: I'm happy to keep going.	
9	MS. WEAVER: Okay.	
10	THE DEPONENT: And I might ask for a	10:33:50
11	break in like 20 minutes, but so I don't know	
12	what everyone's time zones are	
13	MS. WEAVER: Let's break now.	
14	THE DEPONENT: Okay.	
15	MS. WEAVER: Let's break now and then	10:33:55
16	we'll come back.	
17	THE DEPONENT: Cool.	
18	MS. WEAVER: Great. Thank you.	
19	THE VIDEOGRAPHER: Okay. Off the record.	
20	It's 10:34 a.m.	10:34:02
21	(Recess taken.)	
22	THE VIDEOGRAPHER: Okay. We're back on	
23	the record. It's 10:49 a.m.	
24	Q. (By Ms. Weaver) Ms. Leone, you're still	
25	under oath, correct?	10:49:45
		Page 109

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1	A. Correct.	10:49:46
2	Q. A quick question about WAIST, or the Why	
3	Am I Seeing This tool.	
4	Is it your testimony that it lists	
5	interests for which you have been targeted and then	10:50:00
6	you can opt out?	
7	A. WAIST shows you the criteria that you	
8	matched from the audience selections that the	
9	advertiser made. So it will show you for that	
10	specific ad what you matched. And if one of those	10:50:14
11	are interests, it would show there. And then you	
12	would be able to also remove yourself from that	
13	interest.	
14	Q. So you can only remove yourself if you've	
15	already been matched, correct?	10:50:26
16	MR. BENJAMIN: Objection to form.	
17	Misstates.	
18	THE DEPONENT: For Why Am I Seeing This,	
19	the goal of that tool is to provide people an	
20	understanding of how the advertiser reached them.	10:50:38
21	And so there it is based on in that interface,	
22	it's based on that interest that was matched.	
23	In ad preferences, we provide people with	
24	the interest they are targetable through. And	
25	those are it's not based on any one specific	10:50:54
		Page 110

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[		
1	advertiser using it.	10:50:57
2	Q. (By Ms. Weaver) So a user would have to	
3	go to those two different locations. One to	
4	disable when they have already been matched, and	
5	then go to a different location to say general	10:51:08
6	categories, I maybe don't want to be targeted for;	
7	is that right?	
8	MR. BENJAMIN: Objection to form.	
9	THE DEPONENT: The the tools are	
10	for provide different purposes because a user	10:51:21
11	might want transparency and control for different	
12	reasons at different times.	
13	When someone sees an ad, they might look	
14	at the ad and say, literally, why am I seeing this,	
15	hence, the name of the the the menu that	10:51:34
16	explains that to them, and then the relevant	
17	control for that transparency.	
18	Ad preferences is a central hub where	
19	someone can manage their ad settings. And that	
20	includes the interest they can be reached through	10:51:47
21	and then the ability to remove themselves from it.	
22	So they're serving different purposes,	
23	which is why they look different and their entry	
24	points to both of them from the ad, from WAIST or	
25	from our settings and other menus.	10:52:02
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1	Q. (By Ms. Weaver) Right. So I wasn't	10:52:05
2	asking about the purpose.	
3	My question is, if a person wanted to	
4	prevent receiving any kinds of ads, they would	
5	have at a minimum, to go to these two different	10:52:14
6	locations and review at WAIST what had already	
7	occurred to stop it from happening again. And then	
8	in ad preferences make selections to prevent other	
9	kinds of advertising; is that fair?	
10	MR. BENJAMIN: Objection	10:52:32
11	THE DEPONENT: No.	
12	MR. BENJAMIN: to form. Misstates.	
13	THE DEPONENT: No, that that's not	
14	quite what I said.	
15	Q. (By Ms. Weaver) I I know it's not	10:52:38
16	what you said. But I'm asking a different question	
17	than your last answer.	
18	Is it true that to prevent the kind of	
19	targeting we've been discussing, at a minimum, a	
20	user would have to go to both of these sites?	10:52:48
21	A. No. They could they first and	
22	foremost, there's no way to turn off ads on	
23	Facebook. That's not a setting anywhere. We	
24	don't we we show ads in order to provide a	
25	free service.	10:53:06
		Page 112

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1	Users can manage their ad experience	10:53:08
2	through ad preferences, and that can be a starting	
3	point for managing their ad experience.	
4	The reason the purpose for each interface	
5	is important is because WAIST is solving Why Am	10:53:20
6	I Seeing This is solving a very specific user	
7	need, which is, when they see an ad, they want to	
8	understand how they were reached.	
9	They don't have to wait to see an ad and	
10	click on Why Am I Seeing This in order to access	10:53:34
11	their ad preferences, which are available to them	
12	and where they can manage their the settings for	
13	their ads as a central hub.	
14	Q. Does the	
15	A. So they do not need to access both.	10:53:46
16	Q. Does the ad settings list all of the	
17	60,000 interest categories used for detailed	
18	targeting?	
19	A. No	
20	MR. BENJAMIN: Objection to form.	10:53:56
21	THE DEPONENT: because	
22	MR. BENJAMIN: Objection to form.	
23	THE DEPONENT: No, because they are not	
24	all associated with any individual user.	
25	Q. (By Ms. Weaver) Yes, but in order to	10:54:06
		Page 113

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1	proactively say I do not want to receive this ad,	10:54:07
2	wouldn't a user have to be able to opt out of it?	
3	MR. BENJAMIN: Objection to form.	
4	THE DEPONENT: An interest for just	
5	to to underline, the removal from an interest is	10:54:22
6	not about seeing an ad or not. It's about the way	
7	that an advertiser could reach you through that	
8	interest.	
9	I think we discussed before that is	
10	something that you're in the interest and you can	10:54:35
11	remove yourself. It's not a an opt in or a	
12	future looking for future things that you engage	
13	with.	
14	Once you've engaged with content and you	
15	become associated with an interest, someone can go	10:54:49
16	and remove themselves from it.	
17	Q. (By Ms. Weaver) Is there anywhere on the	
18	platform that well, strike that.	
19	Let's move on.	
20	You identified two subcategories of	10:55:08
21	detailed targeted advertising.	
22	One was interests and the second was	
23	behavioral, correct?	
24	A. Behaviors, yes.	
25	Q. Behaviors.	10:55:18
		Page 114

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1	What do you mean by behaviors?	10:55:19
2	A. Behaviors are are targeting options	
3	based on activity on Facebook that indicate that	
4	are are closer to things like people's intent to	
5	purchase. Their the way they interact with	10:55:33
6	commercial entities. So are they often are they	
7	game gamers.	
8	And so behavior clusters are are just	
9	slightly different from interests which are more	
10	topic-based.	10:55:46
11	Q. And how does Facebook infer intent?	
12	A. Similar to to interest. It's based on	
13	activity.	
14	So as an example, if I consistently click	
15	on an ad, I am more likely to click on future ads.	10:56:00
16	We would consider my behavior to be different from	
17	someone who never engages with one.	
18	Q. Can you explain the difference between a	
19	behavior and an interest, in terms of	
20	MR. BENJAMIN: Objection	10:56:23
21	Q. (By Ms. Weaver) how Facebook makes	
22	the determination for a user?	
23	MR. BENJAMIN: Objection to form.	
24	THE DEPONENT: I think what you're asking	
25	is how do we wire these two separate things; is	10:56:35
		Page 115

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1	that	10:56:40
2	Q. (By Ms. Weaver) I'm just asking what the	
3	difference is between them.	
4	A. So the difference is that interests are	
5	topic-based; whereas, behaviors are more	10:56:46
6	activity-based and we're categorizing the activity	
7	more so than the topic of the engagement.	
8	Q. Aren't the topics derived from activity?	
9	A. Yes, they they are derived from	
10	activity, but our how we have categorized it.	10:57:01
11	So as an example here, an interest could	
12	be that I engaged with many pages about interior	
13	design. We'll use that example again, which I'm	
14	is a silly one. And so I I'm interested in	
15	interior design because I consistently engaged with	10:57:21
16	pages about it.	
17	A behavior could be that I have I	
18	often will buy something online. So I click and I	
19	buy something. And so I have an intent to buy	
20	things, regardless of what the topic was of what I	10:57:38
21	was buying.	
22	It's how we've tried to distinguish	
23	those. They represent different dimensions of	
24	people's activity and also different dimensions of	
25	what how an advertiser might want to define	10:57:50
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1	their audience topic-based and behavior-based.	10:57:53
2	Q. And are there categories of behaviors	
3	that Facebook uses to define users to make	
4	available for advertising?	
5	MR. BENJAMIN: Objection to form.	10:58:07
6	Misstates.	
7	THE DEPONENT: There's the the	
8	targeting options are our categories of behaviors.	
9	Q. (By Ms. Weaver) And what are those	
10	targeting options?	10:58:20
11	A. There's a number. So I think I used a	
12	gamers example. They're all available in ads	
13	manager as behaviors.	
14	Q. And currently, how many behaviors are	
15	there?	10:58:34
16	A. There's several hundred.	
17	Q. And when were behavior targeting options	
18	first implemented at Facebook?	
19	A. I think a clarification here, which is	
20	that the categorization, like those have been how	10:58:52
21	we've bucketed these over time. Any individual	
22	option may have been added later or earlier. So I	
23	think these came to be kind of this type of	
24	targeting about 2010, perhaps a little bit earlier.	
25	Q. And who specifically was involved in the	10:59:14
		Page 117

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1	development of behavior targeting?	10:59:17
2	A. Our ad product teams and their	
3	cross-functional team.	
4	Q. Can you identify anyone by name who was	
5	involved in the development of behavior targeting?	10:59:29
6	MR. BENJAMIN: Objection to form and	
7	scope.	
8	THE DEPONENT: Not any one individual.	
9	This is something again, it's like	
10	been been iterated on and evolved over many	10:59:41
11	years by a very large product team.	
12	Q. (By Ms. Weaver) And who's responsible	
13	for it today?	
14	A. Our ads product team.	
15	Q. And who by name in ads products is	10:59:52
16	responsible for the development of behavior	
17	targeting?	
18	A. The head of our ad targeting team is	
19	George Kamps.	
20	Q. And how long has he held that position?	11:00:07
21	A. Several years. I I don't know the	
22	exact date.	
23	Q. And do you know who held the position	
24	before him?	
25	A. He's been involved for a while. I I	11:00:20
		Page 118

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1	don't know the predecessor before. I'm not sure if	11:00:24
2	there was a specific one team or if it was ads	
3	product, which is an org that does this.	
4	Q. How does Facebook create the targeting	
5	opt in options in behavior targeting?	11:00:41
6	MR. BENJAMIN: Objection to form.	
7	Misstates.	
8	THE DEPONENT: We create those based on	
9	people's activity.	
10	Q. (By Ms. Weaver) Can you explain what you	11:00:59
11	mean?	
12	A. I mean that when someone specific	
13	activity on the platform will associate someone	
14	with one of those defined behavior clusters.	
15	Q. You previously testified that for	11:01:13
16	interest-based advertising a component was demand	
17	for the the interest.	
18	Do you recall that?	
19	A. Are you being specific to advertiser	
20	demand or the	11:01:25
21	Q. Yes.	
22	A fact that we've seen users engage with	
23	that content	
24	Q. Right.	
25	A because	11:01:29
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1	Q. I'm trying to distinguish both.	11:01:30
2	So the question is, for behavior	
3	targeting options, did Facebook also consider	
4	whether demand by advertisers was high?	
5	MR. BENJAMIN: Objection to form.	11:01:43
6	THE DEPONENT: Across the board, we would	
7	look at things like the market demand and industry	
8	standards to indicate what are areas that would be	
9	useful tools.	
10	Q. (By Ms. Weaver) How does Facebook assess	11:01:57
11	market demand and industry standards?	
12	A. We can look at other ad products and	
13	understand how those function and what they offer.	
14	We had we can discuss with we can have	
15	discussions with people who use our tools and	11:02:14
16	understand where there's a gap.	
17	Q. And when you say "discussions with people	
18	who use our tools," you mean advertisers?	
19	A. Advertisers. Ad agencies.	
20	Q. And just for the record, what is	11:02:27
21	strike that.	
22	You've defined what an advertiser is, as	
23	somebody who places an ad essentially on Facebook;	
24	is that fair?	
25	A. Uh-huh.	11:02:40
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1	Q. So an advertiser could also be an app or	11:02:41
2	an app developer, or even Facebook, under that	
3	definition, as long as it's somebody who placed an	
4	ad on Facebook, right?	
5	MR. BENJAMIN: Objection to form.	11:02:54
6	THE DEPONENT: So if if a developer	
7	has an app and they want to advertise, and they	
8	create and buy an ad, I would consider them an	
9	advertiser.	
10	Q. (By Ms. Weaver) Have you used or heard	11:03:11
11	use of the word "partner" at Facebook?	
12	THE DEPONENT: Like a capital P partner	
13	in a sense of	
14	Q. (By Ms. Weaver) Yes.	
15	A like a designated title	11:03:23
16	Q. Yeah.	
17	A or what do you mean?	
18	Q. Like facebook partners. If somebody	
19	said, "Oh, this is one of Facebook's partners,"	
20	would you know what that means?	11:03:29
21	A. Yeah. Colloquially that often means	
22	like when we're using it, it often means that	
23	someone is an advertiser.	
24	Q. Okay. When targeting options for	
25	behavioral advertising was launched, on or around	11:03:52
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1	2010, how many categories were there?	11:03:55
2	A. I don't know the initial size.	
3	Q. Do you know again, can you describe	
4	the growth over time or decrease over time?	
5	A. It it would have been several hundred	11:04:06
6	thousand oh, sorry.	
7	Specific to behaviors?	
8	Q. Yeah.	
9	A. That would have been several hundred,	
10	maybe maybe a couple thousand. It was a smaller	11:04:16
11	number. And that's that's it it is	
12	similar now as several hundred.	
13	But, again, both with like as we've	
14	iterated our product, we have both added in and	
15	removed.	11:04:31
16	Q. And how would one create a summary or	
17	overview of the kinds of behavioral targeting	
18	options that have been available at Facebook over	
19	time?	
20	MR. BENJAMIN: Objection to form.	11:04:47
21	THE DEPONENT: There would be do you	
22	mean at like a category-by-category type of	
23	(Simultaneously speaking.)	
24	Q. (By Ms. Weaver) Just yeah, an	
25	identification of, you know, roughly from years	11:05:03
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1		
1	2010 to 2014, here's a list of behavioral targeting	11:05:05
2	options that existed at some point.	
3	A. Yeah. As I was saying, because the	
4	system has evolved over time, I don't think that	
5	there is a high accurate or high accuracy way	11:05:18
6	to to reconstruct that.	
7	It would have to be an effort to	
8	understand maybe like this launched at this point	
9	so we generally understand that these were the	
10	types of segments that were available or were	11:05:32
11	deprecated. So as an example when partner	
12	categories were deprecated, we know they weren't	
13	available in 2019 because they were deprecated in	
14	2018.	
15	Q. What did you mean by the word "segment"	11:05:45
16	when you said it?	
17	A. That so apologies.	
18	Interchangeable with a specific cluster	
19	or option within behaviors.	
20	Q. What's a cluster or an option?	11:05:55
21	A. And I can choose a specific word here	
22	whatever and I'll stick with that one. But it's	
23	for when you an advertiser goes in and	
24	selects within the menu of options the one they	
25	have selected. So I'll I'll use option moving	11:06:13
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1	forward. And it's the same thing as a specific	11:06:16
2	interest is one option. A specific behavior	
3	segment is one option.	
4	Q. And what are the specific kinds of	
5	behaviors that are the data points used to create	11:06:31
6	targeting options?	
7	A. So we take to clarify, we take	
8	activity on Facebook. The information people	
9	provide us. And that can associate and that is	
10	how they become associated with a behavior option	11:06:50
11	that then is also a targeting parameter for	
12	advertisers to select.	
13	Q. And what specific activity on Facebook?	
14	A. Like I was saying, it could be page or	
15	ads interactions. Information they provide us on	11:07:05
16	their profile. The way they engage with specific	
17	types of content. So if they consistently click,	
18	as an example, or if they're they don't click.	
19	If they're those are some examples of activity.	
20	But it's how people interact on the platform.	11:07:22
21	Q. Does it include how they interact with	
22	their friends?	
23	MR. BENJAMIN: Objection to form. Vague.	
24	THE DEPONENT: I'll give an example	
25	because I think that might help ground. And you	11:07:42
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1	can let me know if that's close to what you're	11:07:44
2	what you mean.	
3	We an example of something people	
4	provide us in their profile is their hometown and	
5	they we also they also can say their	11:07:55
6	family a relationship. So they can say I am	
7	a I'm engaged or I'm in a relationship.	
8	We could know from that information that	
9	they are in a relationship. And that would be	
10	what a type of targeting we offer. So that's an	11:08:13
11	example.	
12	I'm not sure if that gets quite at what	
13	you meant by friends interactions, where if you say	
14	I am engaged, you might also list who you're	
15	engaged to. That is a connection between people	11:08:23
16	and is something we use for ads.	
17	Q. (By Ms. Weaver) Yeah. So you identified	
18	two categories. You said one activity and two info	
19	they provide. I wasn't asking about info they	
20	provide. You just discussed it so set that aside.	11:08:39
21	I'm asking very specifically, what	
22	activity on Facebook does Facebook use to create	
23	the targeting options for behavioral advertising?	
24	MR. BENJAMIN: Objection to form.	
25	Argumentative.	11:08:56
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1	O (D. Ma Waaraa) This pat inch limited to	11 00 50
1	Q. (By Ms. Weaver) It's not just limited to	11:08:58
2	groups or pages, is it?	
3	A. It's not. And I	
4	MR. BENJAMIN: Sorry, Bella.	
5	Objection to form.	11:09:04
6	THE DEPONENT: It's not. Another example	
7	and another type of activity is how someone engages	
8	on the platform. For example, they set a a life	
9	event or they update their relationship status.	
10	Q. (By Ms. Weaver) Does it include whether	11:09:24
11	or not, for example, they respond to certain kinds	
12	of content posted by friends?	
13	MR. BENJAMIN: Objection to form. Vague.	
14	THE DEPONENT: Yes.	
15	Q. (By Ms. Weaver) Does it include, for	11:09:40
16	example, how often they use Facebook Messenger?	
17	A. The the again, similar to whether	
18	or not like if you have ever used Facebook	
19	Messenger, yes, could be something we use for ads.	
20	Q. Does it include the content of users'	11:10:01
21	posts?	
22	A. In Messenger or generally?	
23	Q. Both.	
24	A. Like I said before	
25	MR. BENJAMIN: Objection to form.	11:10:15
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25	MR. BENJAMIN: Objection to form.	

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1	THE DEPONENT: we don't use content in	11:10:16
2	message threads for ads. On posts, the content	
3	for example, if I if I post to a page that could	
4	be used, if I engage with posts and the content of	
5	those posts could be used, yes.	11:10:36
6	Q. (By Ms. Weaver) And that's without	
7	regard to whether or not that content was marked	
8	private or public, correct?	
9	MR. BENJAMIN: Objection to form. Asked	
10	and answered. Vague.	11:10:46
11	THE DEPONENT: We don't have a	
12	distinction in that manner of public versus	
13	private. That's not that doesn't quite	
14	translate into our product in that manner.	
15	Q. (By Ms. Weaver) And that's true for the	11:11:00
16	class period for the target options for behavioral	
17	advertising, correct?	
18	MR. BENJAMIN: Objection to form.	
19	THE DEPONENT: Yes.	
20	Q. (By Ms. Weaver) And you've identified	11:11:15
21	two categories. Users' activity well, strike	
22	that.	
23	Other than the content of Facebook	
24	Messenger, is there any other activity on Facebook	
25	that users engage in that is not used for the	11:11:29
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1	creation of targeting options for behavioral	11:11:33
2	targeting?	
3	MR. BENJAMIN: Objection to form.	
4	THE DEPONENT: I I I'm not sure	
5	there's a way to categorize all of the data we	11:11:50
6	don't use. I I'm we can like discussing	
7	the activity that is used, I don't know the full	
8	extent of our entire product and all the data we	
9	have to define what we don't use.	
10	Q. (By Ms. Weaver) But as you sit here	11:12:10
11	today, you can't think of another category, other	
12	than the content of Facebook messages, that is	
13	categorically not used for behavioral targeting; is	
14	that fair?	
15	MR. BENJAMIN: Objection to form.	11:12:23
16	THE DEPONENT: No. Another example is	
17	when someone enters a security phone number, we do	
18	not use that for ads.	
19	Q. (By Ms. Weaver) Okay. Anything else?	
20	A. Not that I can come up with off off	11:12:37
21	the cuff. Again, like it's tough to think of	
22	all potentially all activity and then carve it	
23	out. I know what we do use for ads, which I've	
24	described.	
25	Q. Now, you've described so other than	11:12:52
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1	activity, and other than the information that users	11:12:54
2	provide in sign-up, for example, is there any other	
3	data that Facebook uses to create behavioral	
4	targeting options?	
5	A. So over this period I think we're	11:13:12
6	familiar with partner categories. That's those	
7	were created with data broker information.	
8	We there's also activity off of	
9	Facebook. So for from apps and websites, which	
10	could be used for could be used in a a	11:13:30
11	targeting option.	
12	Q. Anything else you can think of?	
13	A. No. I mean, those are the classes of	
14	data that or the categories of data that we use.	
15	Q. How does Facebook use users' activity off	11:13:44
16	of Facebook to create targeting options used to	
17	target users by third parties?	
18	A. When we were discussing custom audiences,	
19	this is an example of that. So an our business	
20	tools, a website owner and an app owner can use	11:14:04
21	those tools to send information to Facebook about a	
22	visit to their website. That information can help	
23	them then reach back out to people who've already	
24	visited their website. And we use it also to	
25	personalize ads.	11:14:24
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1	Q. Okay. That's custom audiences.	11:14:25
2	You said behavioral targeting is in a	
3	different bucket, right?	
4	A. Apologies.	
5	Behaviors are a specific targeting option	11:14:33
6	we provide. Behavioral targeting is often used as	
7	a way to describe overall personalization. It	
8	sounds like I was responding to the second.	
9	For behaviors, we also have used offsite	
10	engagement in those. That over over the	11:14:47
11	course of this period. It could be very similar to	
12	the options to to what I was saying about if	
13	you consistently purchase on online, that could	
14	be something that informs one of those options.	
15	Q. And does Facebook collect the information	11:15:05
16	about users' off-platform activity through the use	
17	of cookies or other trackers?	
18	MR. BENJAMIN: Objection to form and	
19	scope.	
20	THE DEPONENT: For for ad use, we base	11:15:27
21	it off of the use of our business tools. So our	
22	Pixel and app SDK.	
23	Q. (By Ms. Weaver) And for the record, what	
24	is Pixel?	
25	A. Pixel is a cookie that is placed on a	11:15:42
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1	website that communicates information back to	11:15:45
2	Facebook by the website owner.	
3	Q. And when was Pixel first in use?	
4	A. 20 for ads, 2014.	
5	Q. Was it in use not for ads prior to that?	11:15:59
6	A. It was. It was something	
7	MR. BENJAMIN: Objection objection to	
8	form and scope.	
9	THE DEPONENT: It was something that	
10	launched prior to that. But use for ads was in	11:16:10
11	2014.	
12	Q. (By Ms. Weaver) And do you know what it	
13	was used for prior to being used for ads?	
14	MR. BENJAMIN: Objection to scope.	
15	THE DEPONENT: It was used for website	11:16:25
16	owners to do analytics and understand more about	
17	how their website was functioning.	
18	I don't know more generally how or	
19	or in other specifics of how it was used.	
20	Q. (By Ms. Weaver) And Pixel is in use	11:16:44
21	today; is that right?	
22	A. Yes. Correct.	
23	Q. And you referred to app SDK; is that	
24	right?	
25	A. Yes.	11:16:56
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1	Q. What is that?	11:16:57
2	A. Similar. It's a way for a developer or	
3	an app owner to provide information back to	
4	Facebook about specific events in their app.	
5	Q. And what specific kinds of information do	11:17:19
6	Pixel and app SDK communicate about users'	
7	off-platform activity that is then used to target	
8	them in behavior part of the options?	
9	MR. BENJAMIN: Objection to form.	
10	THE DEPONENT: So a a it the	11:17:39
11	I'm going to answer this in terms of how Pixel	
12	functions. And I think that is	
13	Q. (By Ms. Weaver) Okay.	
14	A is probably what we're getting to.	
15	The when the way a Pixel works is	11:17:58
16	that the business tool or the the person	
17	who's using our business tool. So the website	
18	owner sets it up and they translate back to us	
19	contact information and event data.	
20	The contact information is an identifier	11:18:14
21	which helps us understand who took that action and	
22	we hash and match that on our platform.	
23	The event is about a check-out, like	
24	they they choose what what event they're	
25	hoping to to have the Pixel transmit back. That	11:18:29
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1	could be something like they went to our menu.	11:18:34
2	They looked at our hours of operation. They	
3	added added something to the cart, checked out.	
4	We would receive both of those. And the	
5	event information is what helps us understand the	11:18:46
6	activity and could help personalize an ad.	
7	Q. So for example, if somebody goes onto a	
8	website and puts something in a cart but doesn't	
9	check out, does Facebook still receive the	
10	information about what was sitting in the cart?	11:19:00
11	MR. BENJAMIN: Objection to form.	
12	THE DEPONENT: There are different	
13	concepts. The website owner has sent us	
14	specifically an add-to-cart event. They could	
15	separately send us a check-out event. Those are	11:19:15
16	are distinct.	
17	Q. (By Ms. Weaver) Okay. But the answer	
18	is, yes, Facebook could receive the information	
19	about what was sitting in the cart but not	
20	purchased; is that right?	11:19:25
21	MR. BENJAMIN: Objection to form.	
22	Misstates.	
23	THE DEPONENT: It is not about	
24	understanding the the the flow, and all of	
25	the purchases. It's about the event that the	11:19:38
		Page 133
		I

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website owner chooses to send back and the	11:19:40
information they include and sending that back to	
us.	
Q. (By Ms. Weaver) Okay. And I'm being	
very granular. But one of the events that	11:19:48
advertisers choose to send back is whether or not	
something is sitting in a cart, but did not check	
out; isn't that true?	
MR. BENJAMIN: Objection to form.	
THE DEPONENT: It's it's not that	11:20:03
they're sending us back didn't check out. They're	
sending us back that someone added something to the	
cart. It's a moment an event that is triggered,	
not a subtraction of then whether or not check-out	
happened.	11:20:18
Q. (By Ms. Weaver) I understand. We're	
getting lost a little bit in semantics.	
A. Okay.	
Q. Let me ask it this way.	
If I looked up my profile at Facebook and	11:20:24
had the internal tools, could I see instances of	
where I had items in my cart but they weren't	
purchased?	
MR. BENJAMIN: Objection to form.	
THE DEPONENT: Can you clarify what you	11:20:38
	Page 134
	information they include and sending that back to us.  Q. (By Ms. Weaver) Okay. And I'm being very granular. But one of the events that advertisers choose to send back is whether or not something is sitting in a cart, but did not check out; isn't that true?  MR. BENJAMIN: Objection to form.  THE DEPONENT: It's it's not that they're sending us back didn't check out. They're sending us back that someone added something to the cart. It's a moment an event that is triggered, not a subtraction of then whether or not check-out happened.  Q. (By Ms. Weaver) I understand. We're getting lost a little bit in semantics.  A. Okay.  Q. Let me ask it this way.  If I looked up my profile at Facebook and had the internal tools, could I see instances of where I had items in my cart but they weren't purchased?  MR. BENJAMIN: Objection to form.

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1	mean your your profile and internal tools.	11:20:39
2	Q. (By Ms. Weaver) Okay. For let me	
3	just ask this.	
4	Does Facebook possess information about	
5	users that would reflect instances where something	11:20:53
6	was sitting in their cart but not purchased?	
7	MR. BENJAMIN: Objection to form.	
8	THE DEPONENT: Not in the way that I	
9	think you've conceptualized it	
10	Q. (By Ms. Weaver) Okay.	11:21:07
11	A which is that there is a this item	
12	was or was not purchased on a website.	
13	We know if someone specifically if	
14	if a website owner passed us back Pixel, that the	
15	check-out Pixel was fired, we would know that.	11:21:20
16	If the information passed back to us was	
17	that the add-to-cart Pixel was fired, we would know	
18	that. It's	
19	Q. Okay. That's all I was asking. Like	
20	okay. That's good.	11:21:34
21	Does Facebook inform users which third	
22	parties are collecting information about them of	
23	their off-platform activity through Pixel and app	
24	SDK?	
25	MR. BENJAMIN: Objection to form and	11:22:10
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1	scope.	11:22:10
2	THE DEPONENT: The Pixel and app SDK and	
3	the and the the and the websites and apps	
4	that use those are shown to people in OFA, which is	
5	our off Facebook activity tool.	11:22:29
6	Q. (By Ms. Weaver) Are all of them in OFA?	
7	A. This is a little bit outside of ads. So	
8	yes, my understanding is that they are. But not my	
9	expertise.	
10	Q. And how long has OFA been functional?	11:22:46
11	MR. BENJAMIN: Objection to form.	
12	THE DEPONENT: I I believe we launched	
13	OFA my personal recollection is that we launched	
14	it between 2016 and 2018. But, again, somewhat	
15	outside the scope of ads.	11:23:12
16	Q. (By Ms. Weaver) Okay. So we've now	
17	identified three categories of data that can be	
18	used to create the targeting categor or options	
19	in behavior advertising and that is, activity on	
20	Facebook, information users provide and	11:23:27
21	off-platform activity.	
22	Is there any other category of data not	
23	included that we should be discussing?	
24	A. No.	
25	Q. Okay. Once Facebook has the data, how	11:23:39
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1	does it create the inference of an intent or a	11:23:45
2	behavior?	
3	MR. BENJAMIN: Objection to form.	
4	THE DEPONENT: So I think what's	
5	important to understand here is what we're trying	11:24:03
6	to do is understand if someone's previous	
7	engagement or interest or behavior would predict	
8	their future engagement or interest in behavior.	
9	So to draw that out, that line pretty	
10	clearly, if I consistently click on ads, we said	11:24:19
11	that would be an indication to us that I am likely	
12	to click on ads.	
13	So that is an example of where we are	
14	taking someone's previous behavior to to	
15	understand their future behavior. It	11:24:36
16	it's based it I think that answers your	
17	question, just in terms of, it's not that it's like	
18	a labeling exercise. It is a question of you	
19	you've previously engaged in this way and that	
20	helps us understand how you might engage in the	11:24:53
21	future.	
22	Q. (By Ms. Weaver) Is Facebook using	
23	algorithms to predict the future behavior?	
24	MR. BENJAMIN: Objection to form.	
25	THE DEPONENT: Our ad delivery does	11:25:05
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1	include algorithms. They are machine learning	11:25:06
2	classifiers that help us estimate people's future	
3	behavior.	
4	Q. (By Ms. Weaver) What is	
5	(Court Reporter asks for clarification.)	11:25:20
6	Q. (By Ms. Weaver) What is machine	
7	learning?	
8	A. Machine learning is a form of	
9	programmatically at least in the context of	
10	ads of programmatically creating this	11:25:31
11	prediction. So within our ad delivery, we base it	
12	on people's activity to understand their future	
13	potential engagement.	
14	Q. And is this kind of analysis logged at	
15	Facebook with regard to users?	11:25:47
16	A. Can you explain what you mean by "this	
17	analysis."	
18	Q. Right.	
19	You engage in a purchase and the	
20	algorithm says it means that you're likely to	11:26:03
21	engage in a different kind of purchase in ten	
22	minutes.	
23	Is that logged somewhere, that	
24	prediction?	
25	MR. BENJAMIN: Objection objection to	11:26:13
		Page 138

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1	form.	11:26:14
2	THE DEPONENT: We so I think there are	
3	a few a few important pieces.	
4	Machine learning takes into account	
5	it's not a one-to-one deterministic rule, which is	11:26:25
6	why it's machine learning.	
7	And so it's taking into account your	
8	activity and and that helps us develop the in	
9	this example, let's we call it the estimated	
10	action rate, which is whether or not you will	11:26:42
11	engage in the way in in an ad.	
12	We log the the activity that's feeding	
13	into it, because that's just the activity that we	
14	have anyway and we we know which ad we showed	
15	someone. So we know the output.	11:27:07
16	Q. (By Ms. Weaver) Let's talk about the	
17	output.	
18	Facebook makes a prediction. What does	
19	it do with that prediction?	
20	MR. BENJAMIN: Objection objection to	11:27:31
21	form.	
22	THE DEPONENT: I think it's helpful to	
23	maybe expand to ads.	
24	So advertiser creates the ad. They give	
25	us the content. They set the parameters for their	11:27:39
		Page 139

## Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 141 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	audience and their bid. The bid is how much they	11:27:42
2	are willing to pay to show that ad.	
3	We then move it into our ad ranking or	
4	the optimization portion where we take the eligible	
5	audience and we say who which ad should Bella	11:27:55
6	see.	
7	In order to determine that, we're	
8	we're using the total value equation and that is	
9	the bid from the advertiser, the estimated action	
10	rate that I will actually want to see this and	11:28:10
11	engage with this ad and the ad quality. Those are	
12	the machine learning components.	
13	And then the output is whether which	
14	ad we they I'm shown of all the ads that I'm	
15	eligible to see in that moment.	11:28:24
16	Q. (By Ms. Weaver) So does Facebook log	
17	which ads a specific user is shown?	
18	A. Yes.	
19	Q. And when did Facebook start logging what	
20	ads a specific user is shown?	11:28:39
21	A. I believe that we have have we	
22	have in we have logged that since we started	
23	to show ads.	
24	Q. Which was in 2007, right?	
25	A. Yes.	11:29:01
		Page 140

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1	Q. And does Facebook link the advertisement	11:29:02
2	shown to a specific user and also log the behavior	
3	that triggered the ad?	
4	MR. BENJAMIN: Objection to form.	
5	THE DEPONENT: What I was saying before	11:29:17
6	is, it's not a one-to-one relationship. It's not a	
7	singular behavior. And so there wouldn't be a one	
8	trigger to log with that.	
9	Q. (By Ms. Weaver) Is there are there	
10	logs that reflect series of activities that also	11:29:31
11	correlate in time to the ads Facebook is showing	
12	them?	
13	MR. BENJAMIN: Objection to form.	
14	THE DEPONENT: Again, the assumption is	
15	that there's like a a separate set of activity	11:29:44
16	from what just what we use for ads as people's	
17	activity. And then that is how our machine	
18	learning determines if this would be of interest	
19	and then determines the ad to show.	
20	It's not that there is like cherry-picked	11:30:02
21	activity that would is a one-to-one relationship	
22	with showing any given ads. So that's not that	
23	doesn't reflect how machine learning works in order	
24	to log it in that manner.	
25	Q. (By Ms. Weaver) Right. I understand.	11:30:17
		Page 141

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I mean, what I'm trying understand,	11:30:18
though, at some point machine learning is learning	
and it's saying this activity predicts X, right?	
MR. BENJAMIN: Objection to form and	
scope.	11:30:30
THE DEPONENT: Do you mean a specific	
activity or Bella has has this is these	
are Bella's interactions over time, and we think it	
means that this would be an ad of interest.	
Q. (By Ms. Weaver) Exactly.	11:30:43
A. Right.	
So, again, we know activity that is	
logged. We know which ads I I have we know	
the targeting of ads. And then we know the ad I'm	
shown. So we know the output.	11:30:54
Q. So the question is, does Facebook	
maintain any kind of record record or log of, in	
a given time period, these are the activities and	
these are the ads?	
A. We maintain records of people's activity	11:31:09
and we maintain records of or we we store the	
ads people are shown.	
Q. And doesn't Facebook also maintain some	
kind of record of the special sauce that gets them	
from A to B?	11:31:24
	Page 142
	though, at some point machine learning is learning and it's saying this activity predicts X, right?  MR. BENJAMIN: Objection to form and scope.  THE DEPONENT: Do you mean a specific activity or Bella has has this is these are Bella's interactions over time, and we think it means that this would be an ad of interest.  Q. (By Ms. Weaver) Exactly.  A. Right.  So, again, we know activity that is logged. We know which ads I I have we know the targeting of ads. And then we know the ad I'm shown. So we know the output.  Q. So the question is, does Facebook maintain any kind of record record or log of, in a given time period, these are the activities and these are the ads?  A. We maintain records of people's activity and we maintain records of or we we store the ads people are shown.  Q. And doesn't Facebook also maintain some kind of record of the special sauce that gets them

## Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 144 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1		
1	MR. BENJAMIN: Objection to form.	11:31:27
2	THE DEPONENT: I think that is what I	
3	described. There isn't a way to like there	
4	isn't storage of a specific trigger because that's	
5	not how machine learning works.	11:31:40
6	Q. (By Ms. Weaver) Right. I understand	
7	what you're saying.	
8	I'll come back to that.	
9	Where are the logs that you just	
10	described with regard to the activity in the ads	11:31:52
11	maintained?	
12	A. Ads people see is something that we store	
13	People's activity is also something we	
14	store store	
15	Q. Is it stored anywhere else?	11:32:06
16	MR. BENJAMIN: Objection to form. Vague.	
17	Compound.	
18	THE DEPONENT: The ads information is	
19	stored . That's the database that that	
20	holds it. And that's the same for the activity.	11:32:21
21	There other other systems might read from it.	
22	So for example, to render ads reporting.	
23	In ads manager, we would read from from those	
24	databases.	
25	Q. (By Ms. Weaver) Are you familiar with	11:32:40
		Page 143

# Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 145 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	the Download Your Information tool?	11:32:40
2	A. I'm familiar that it exists, and we	
3	provide access to information there.	
4	Q. Does it read from these tables,	
5	do you know?	11:32:55
6	A. I	
7	MR. BENJAMIN: Objection objection to	
8	form and scope.	
9	THE DEPONENT: Unfortunately, I don't	
10	know that as part of of my ads expertise.	11:33:02
11	MS. WEAVER: Okay. I think we can	
12	take our a break now.	
13	Let's go off the record.	
14	THE VIDEOGRAPHER: Okay. We're off the	
15	record. It's 11:33 a.m.	11:33:28
16	(Recess taken.)	
17	THE VIDEOGRAPHER: We're back on the	
18	record. It's 12:24 p.m.	
19	Q. (By Ms. Weaver) Hi, Ms. Leone. Did you	
20	have a good lunch?	12:24:23
21	A. I did. Thank you.	
22	Q. Or lunch equivalent.	
23	I'm going to show you what we've marked	
24	as uh-oh Exhibit give me a moment 656.	
25	////	
		Page 144

# Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 146 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	(Exhibit 656 was marked for	12:24:39
2	identification by the court reporter and is	
3	attached hereto.)	
4	Q. (By Ms. Weaver) And while we're waiting	
5	for it to load, do you recall when ad preferences	12:24:43
6	was created, so that users could see what or try	
7	to control what ads were presented to them?	
8	A. Ad preferences launched in 2014.	
9	Q. Okay. I see.	
10	Okay. Do we have Exhibit 656 up?	12:25:17
11	A. Yes, I have it up.	
12	Q. And looking at Exhibit 656, do you know	
13	what it is?	
14	A. It is a Newsroom blog post from 2019	
15	announcing additions to some of our transparency	12:25:38
16	interfaces.	
17	Q. So what is a Newsroom blog post?	
18	A. A Newsroom blog post Newsroom is what	
19	we call the portion of our website where anyone can	
20	navigate on the Internet that we make	12:25:57
21	announcements.	
22	Q. And looking at Exhibit 656, you see that	
23	it bears a date of July 11th, 2019?	
24	A. Yes.	
25	Q. Why did you review this particular	12:26:13
		Page 145

# Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 147 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	document?	12:26:16
2	MR. BENJAMIN: Objection to form.	
3	THE DEPONENT: This is part of our	
4	evolution of the tools around ads targeting and ads	
5	ranking. In this case, the transparency tools.	12:26:29
6	And so I wanted to be sure that I understood what	
7	had changed in this moment.	
8	And if I do you mind if I take a	
9	moment and	
10	Q. (By Ms. Weaver) Of course.	12:26:40
11	A make sure that	
12	Q. Yeah.	
13	A. Sorry.	
14	Yeah, this was these were updates to	
15	WAIST. And as part of prep, I was reviewing many	12:27:02
16	of the updates we've made and and generally	
17	understanding where when those were.	
18	Q. So this disclosure does not relate to ads	
19	sent to users because of behavioral targeting	
20	actions, right?	12:27:24
21	MR. BENJAMIN: Objection to form.	
22	THE DEPONENT: Can you clarify when you	
23	say "behavioral," what what you mean?	
24	Q. (By Ms. Weaver) Okay. With respect to	
25	data sources that are bases of the information	12:27:36
		Page 146

# Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 148 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	that's used for ad interest, and then there's a	12:27:40
2	different dataset that is the source for behaviors,	
3	correct?	
4	MR. BENJAMIN: Objection to form.	
5	Misstates.	12:27:55
6	THE DEPONENT: It sounds like you're	
7	differentiating the activity more so than the fact	
8	that it's just a separate set of options in the UI	
9	for advertisers. And that's meant to reflect how	
10	they organize and how they can select their	12:28:10
11	audience. And that's really the big distinction	
12	between the two.	
13	Q. (By Ms. Weaver) Okay. Well, looking at	
14	Exhibit 656 and turning to the page that's at	
15	ending in -945.	12:28:42
16	A. Yes, I'm there.	
17	Q. And do you see it says "We're updating Ad	
18	Preferences to show you more about businesses that	
19	upload lists with your information."	
20	Do you see that?	12:28:58
21	A. Yes. Sorry. I'm not sure if this is for	
22	others as well. That's actually on the944 for	
23	me.	
24	Q. I'm so sorry. That	
25	A. Okay. I I just want to be sure I'm at	12:29:14
		Page 147

# Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 149 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	the right spot.	12:29:17
2	Yes, I see that.	
3	Q. So does Facebook provide businesses with	
4	lists that they can upload with information about	
5	users?	12:29:25
6	A. No.	
7	Q. So what does this mean when it says	
8	"We're also updating Ad Preferences to show you	
9	more about businesses that upload lists with your	
10	information"?	12:29:35
11	A. This refers to custom audiences. The	
12	customer list form of custom audiences.	
13	Q. Okay. And and so looking at	
14	Exhibit 656, is this meant what what is the	
15	purpose of this blog?	12:29:49
16	A. This was to	
17	MR. BENJAMIN: Objection objection to	
18	form.	
19	THE DEPONENT: This was to announce	
20	updates to WAIST and ad preferences that would help	12:29:57
21	users understand when an advertiser has uploaded a	
22	customer list in order to reach them with an ad.	
23	Q. (By Ms. Weaver) Okay. Well, look at the	
24	page ending -943	
25	A. Yes.	12:30:13
		Page 148

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1	Q where it says "First, we'll show	12:30:14
2	people more reasons why they're seeing an ad on	
3	Facebook. In the past, 'Why am I seeing this ad?'	
4	highlighted one or two of the most relevant	
5	reasons, such as demographic information or that	12:30:24
6	you may have visited a website. Now, you'll see	
7	more detailed targeting, including the interests or	
8	categories that matched you with a specific ad. It	
9	will also be clearer where that information came	
10	from (e.g. the website you may have visited or Page	12:30:38
11	you may have liked), and we'll highlight controls	
12	you can use to easily adjust your experience."	
13	Do you see that?	
14	A. Yes.	
15	Q. So when it's referring to interest or	12:30:48
16	categories that match you with a specific ad, that	
17	is referring to interest advertising, right?	
18	MR. BENJAMIN: Objection to form. Vague.	
19	THE DEPONENT: So reading this blog post,	
20	it's referring to the targeting options that are	12:31:06
21	under detailed targeting. So interests targeting	
22	options and and other categories which are the	
23	other options within detailed targeting.	
24	Q. (By Ms. Weaver) Okay. And then a little	
25	later, you've said that what on the next page,	12:31:20
		Page 149

# Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 151 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	pages 4 and 5 of the document it discusses	12:31:24
2	custom advertising; is that right?	
3	MR. BENJAMIN: Objection to form.	
4	Misstates.	
5	THE DEPONENT: It also notes that we're	12:31:34
6	making an additional update to ad preferences, and	
7	that is related to customer lists.	
8	Q. (By Ms. Weaver) And why doesn't this	
9	document discuss the behavioral targeting the	
10	the targeting for behaviors that we spent so much	12:31:48
11	time discussing before the break?	
12	MR. BENJAMIN: Objection to form.	
13	Mischaracterizes.	
14	THE DEPONENT: The so I didn't write	
15	this blog post. So the wording here I think	12:32:02
16	it's hard to speculate exactly how they drafted	
17	this.	
18	But that is what is meant by the more	
19	"you'll see more detailed targeting, including the	
20	interests or categories that matched you with a	12:32:15
21	specific ad."	
22	That includes those behaviors and	
23	specifically the behaviors that the advertiser	
24	chose when creating their desired audience.	
25	Q. (By Ms. Weaver) Do you know why the word	12:32:31
		Page 150

# Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 152 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	"behaviors" is not used in this disclosure?	12:32:31
2	MR. BENJAMIN: Objection to form and	
3	scope.	
4	THE DEPONENT: I I can't tell you how	
5	it was drafted this way. But detailed targeting	12:32:44
6	interests or categories, we often talk about	
7	targeting as categories and this this aligns	
8	with that. It doesn't use the the exact same	
9	nomenclature, but	
10	Q. (By Ms. Weaver) Or the word "behavior."	12:33:00
11	Do you know if Facebook uses the word	
12	"behavior" in its privacy policy or data use	
13	policy?	
14	MR. BENJAMIN: Objection.	
15	Q. (By Ms. Weaver) The the kinds of	12:33:09
16	inferences drawn about them based on their activity	
17	on and off the platform?	
18	MR. BENJAMIN: Excuse me. I didn't mean	
19	to interrupt. I'm sorry.	
20	Objection to form and scope.	12:33:17
21	THE DEPONENT: I don't know if the	
22	specific word is used. But we do use that word.	
23	It's in our ad product when someone goes to create	
24	an ad.	
25	Q. (By Ms. Weaver) So you use it facing	12:33:29
		Page 151

# Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 153 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	advertisers, but not facing users; is that right?	12:33:30
2	A. Again	
3	MR. BENJAMIN: Objection to form.	
4	THE DEPONENT: that's not quite right.	
5	I said I I don't know for certain if it's in our	12:33:38
6	policy our our data policy. But it is	
7	displayed to users in other transparency interfaces	
8	such as ad preferences.	
9	Q. (By Ms. Weaver) You're the you're a	
10	privacy and policy manager is that right? and	12:33:52
11	you have been since 2019?	
12	A. Correct.	
13	Q. And what are your duties and	
14	responsibilities?	
15	A. I work with our	12:34:00
16	MR. BENJAMIN: Objection sorry.	
17	THE DEPONENT: Sorry. That was my fault.	
18	MR. BENJAMIN: Objection to form and	
19	scope.	
20	You can answer.	12:34:10
21	THE DEPONENT: I work with our product	12.31.10
22	teams as they develop new products. And we work to	
23	ensure that those would would be in line with	
24	what we think our privacy principles should be.	
25	And also conversations we have with external groups	12:34:25
		Page 152

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1	and feedback generally about the products.	12:34:28
2	Q. (By Ms. Weaver) And does that include	
3	do the products include behavior targeting?	
4	A. I cover ad targeting, yes.	
5	Q. Earlier you indicated that there might be	12:34:41
6	a difference in your mind between behavioral	
7	advertising targeting and behavior targeting; is	
8	that fair?	
9	A. I I think there's there's the	
10	product of behavior operations that are in our	12:34:56
11	targeting tools. So what we provide to advertiser.	
12	I think there can be people use behavioral	
13	targeting to speak generally about both	
14	personalization, about the use of specifically	
15	offsite data.	12:35:13
16	And so I think it's like capital B,	
17	behavior, a thing we produce or we provide in our	
18	tool versus the concept of behavioral targeting.	
19	And that's the distinction I see. But when we were	
20	discussing it earlier, I think those got a little	12:35:29
21	bit mixed probably.	
22	Q. Okay. And and what is OBA?	
23	A. OBA is closer to that, the second, it's	
24	online behavioral advertising. It is commonly	
25	meant to mean use of of activity off of the	12:35:44
		Page 153

# Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 155 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	platform to inform advertising.	12:35:49
2	Q. So is it fair to say that like OBA or	
3	behavioral behavioral advertising is an industry	
4	term of art.	
5	And when you've been talking about	12:35:59
6	behavior, it's a specific Facebook product?	
7	A. Yes. It is a industry term of art. When	
8	we were specifically talking about behaviors, the	
9	targeting options, I addressed those. When we were	
10	talking about how we use activity generally, it	12:36:15
11	would also relate to the industry term of online	
12	behavioral advertising.	
13	Q. Okay. And then what is political	
14	targeting?	
15	MR. BENJAMIN: Objection to form.	12:36:33
16	THE DEPONENT: Political targeting is	
17	just the I guess I'm I might need to put that	
18	back to you.	
19	Are you thinking in the context of our	
20	tools?	12:36:49
21	Q. (By Ms. Weaver) I'm just thinking, in	
22	general, do you know what political targeting	
23	means?	
24	MR. BENJAMIN: Objection to form and	
25	scope.	12:36:57
		Page 154

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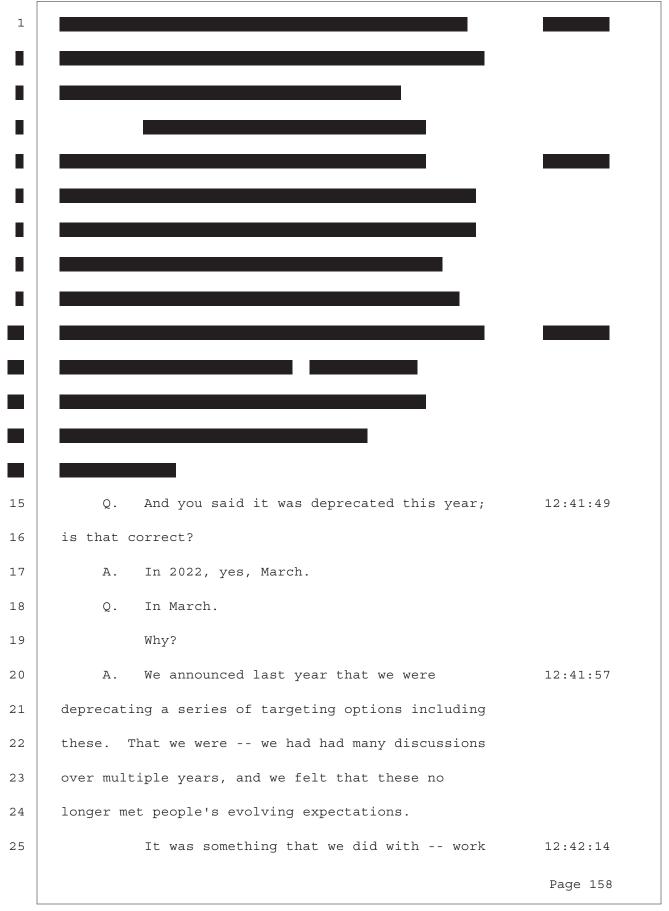
1	THE DEPONENT: To me, that means the	12:36:59
2	options we provide for advertisers to create their	
3	audience that are related to politics.	
4	MS. WEAVER: Okay. Well, why don't we	
5	mark Exhibit 3, because of the scope objection.	12:37:10
6	And for the record, Exhibit 3 [sic] is a	
7	letter sent to me from Mr. Benjamin on	
8	July 29th, 2022.	
9	(Exhibit 657 was marked for	
10	identification by the court reporter and is	12:37:27
11	attached hereto.)	
12	MS. WEAVER: And when it's up, I'll ask	
13	you to turn to the second page, and I'll read into	
14	the record when you have it up.	
15	Do you have it available, Counsel?	12:37:38
16	MR. BENJAMIN: Yes.	
17	Q. (By Ms. Weaver) It says "Ms. Leone will	
18	be prepared to discuss: The targeting and audience	
19	selection options available to advertisers,	
20	including with respect to political targeting	12:37:53
21	segments, which we understand to be of interest to	
22	Plaintiffs."	
23	Do you see that?	
24	A. Yes.	
25	Sorry.	12:38:08
		Page 155

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1	Q. Okay. So what are political targeting	12:38:08
2	segment segments?	
3	A. It's what I was describing as the options	
4	that we provide an advertiser to define their	
5	audience.	12:38:18
6	MS. WEAVER: Okay. So the scope	
7	objection was meritless.	
8	Q. (By Ms. Weaver) The what is there	
9	a subset of political segmentation that Facebook	
10	provides to advertisers?	12:38:31
11	A. We've provided specific targeting	
12	options. And those are when I think maybe	
13	segmentation here is interchangeable with options.	
14	So there are a number of political targeting	
15	options that we've provided to advertisers.	12:38:50
16	Q. And what are they and how have they	
17	changed over time?	
18	A. There were several phases. So the	
19	initial phase, from 2014 to 2018, was five	
20	targeting options that were based that work	12:39:07
21	were called like very liberal to very conservative.	
22	And then we've had multiple phases since then. One	
23	phase which segmented those five into smaller or	
24	or more defined groups.	
25	And then the latest phase that was we	12:39:27
		Page 156
		ı

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1	introduced in 2018, which went back to five top	12:39:32
2	level groups, and those were deprecated in 20	
3	2022.	
4	Q. So going back to the segments from 2014	
5	to 2018, what were those five targeting options?	12:39:44
6	A. Very liberal, liberal, moderate,	
7	conservative and very conservative.	
8	Q. And then you said there were there was	
9	a phase from 2018 to 2020; is that fair?	
10	A. Sorry. I I think my I said 2022,	12:40:05
11	but so it was 2018 to 2022. And it was the same	
12	naming except it was likely to engage with. And	
13	there were new segments, likely to engage with,	
14	very liberal content. And then similar, likely to	
15	engage with, liberal content. Likely to engage	12:40:24
16	with, moderate content. Likely to engage with,	
17	conservative content. Likely to engage with, very	
18	conservative content. And those were 2018 to 2022.	
19	Q. And why were the words "likely to engage	
20	with" added to the segments?	12:40:38
21	A. It was a representation of how those	
22	segments changed. The naming was to reflect how we	
23	developed those.	
24	Q. How did the segments change?	
25	А.	12:40:53
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1	with advocacy groups and others to identify and	12:42:16
2	then phase out from our targeting system.	
3	Q. What expectations did it not meet?	
4	A. From our conversations, these these	
5	were areas that people may perceive to be sensitive	12:42:33
6	and weren't ones that we wanted to continue to	
7	support.	
8	Q. And when you say "sensitive," what do you	
9	mean?	
10	A. I'm I'm using the words of of many	12:42:45
11	of the groups we spoke to. They found that these	
12	were areas that people found sensitive and	
13	and and we decided those those targeting	
14	options would no longer meet people's expectations.	
15	I can't tell you exactly what they meant by	12:43:04
16	sensitive.	
17	Q. But I'm just asking what Facebook means	
18	by sensitive?	
19	A. We don't take that as a definition. It's	
20	that we understood people perceived these to be	12:43:16
21	sensitive and and choose to to not support	
22	them any longer.	
23	Q. Did Facebook suffer a loss in revenue by	
24	deprecating the use of those political targeting	
25	segments?	12:43:35
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1	MR. BENJAMIN: Objection to form and	12:43:39
2	scope.	
3	THE DEPONENT: Advertisers don't have	
4	these segments any longer. I can't tell you if	
5	that means that they stopped advertising or not.	12:43:48
6	Q. (By Ms. Weaver) Did Facebook take any	
7	steps to track, before or after making the	
8	decision, the impact to revenue of deprecating	
9	these political targeting segments?	
10	A. Okay. What I explained	12:44:03
11	MR. BENJAMIN: Objection to form.	
12	Compound.	
13	THE DEPONENT: What I explained earlier	
14	is relevant here, too, where there isn't a before	
15	and after snapshot because revenue isn't associated	12:44:14
16	with any one targeting option.	
17	Q. (By Ms. Weaver) Okay. But the question	
18	was, did Facebook take any steps to track, before	
19	or after making this decision, the impact to	
20	revenue of deprecating political targeting	12:44:30
21	segments?	
22	MR. BENJAMIN: Objection	
23	THE DEPONENT: My point is that	
24	MR. BENJAMIN: Objection to form.	
25	THE DEPONENT: My point is that there	12:44:39
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1	isn't a one-to-one way to track that. And so we	12:44:40
2	did not take steps to track explicitly the revenue	
3	loss from removing these these segments.	
4	Q. (By Ms. Weaver) Does Facebook, in	
5	general, track revenue loss when it deprecates a	12:44:52
6	product?	
7	MR. BENJAMIN: Objection to form and	
8	scope.	
9	THE DEPONENT: Can I clarify, do you mean	
10	understanding what our revenue was before something	12:45:07
11	and then after?	
12	Q. (By Ms. Weaver) Yes.	
13	A. We track our revenue. There are lots of	
14	factors that influence our revenue. And we do not	
15	associate a change in revenue specifically with the	12:45:20
16	removal of targeting because it is not a one-to-one	
17	relationship. And as	
18	Q. And	
19	A. Yeah.	
20	Q. I understand the point.	12:45:31
21	But here Facebook deprecated a product,	
22	correct?	
23	A. We deprecated targeting options. And as	
24	I clarified, I call those products.	
25	Q. And and products have budget, don't	12:45:40
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1	they?	12:45:42
2	MR. BENJAMIN: Objection to form and	
3	scope.	
4	THE DEPONENT: Budgets in the sense of	
5	the amount of money Facebook uses to build those	12:45:49
6	products?	
7	Q. (By Ms. Weaver) Yes.	
8	And, again, we're talking about	
9	advertising products.	
10	A. We we do fund our product teams and	12:46:00
11	the resources to build a product. That is pretty	
12	separate from a revenue calculation.	
13	Q. Does Facebook provide or strike that.	
14	Does Facebook track the revenue that	
15	certain products generate?	12:46:17
16	MR. BENJAMIN: Objection to scope.	
17	THE DEPONENT: For ads, it is not a	
18	one-to-one relationship because there are multiple	
19	targeting options involved in any ad. And so there	
20	isn't a way to track it directly back to a	12:46:37
21	targeting option to track revenue directly back	
22	to a targeting option.	
23	Q. (By Ms. Weaver) Are you saying that this	
24	product was a targeting option in your answer?	
25	MR. BENJAMIN: Objection to form.	12:46:54
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1	THE DEPONENT: The political	12:46:54
2	Q. (By Ms. Weaver) The reason I'm asking	
3	is, you're you keep answering in generalities,	
4	and I'm talking about these political targeting	
5	segments that you just discussed, did Facebook's	12:47:05
6	revenue decrease when it deprecated them?	
7	MR. BENJAMIN: Objection to scope.	
8	THE DEPONENT: These targeting	
9	products the specific political segments were	
10	deprecated. There is not a one-to-one way to	12:47:24
11	measure if any increase or decrease in revenue is	
12	related to that deprecation.	
13	Q. (By Ms. Weaver) I'm not asking about a	
14	one-to-one ratio.	
15	I'm just asking, after Facebook	12:47:31
16	deprecated these products, did its targeting	
17	revenue decrease?	
18	MR. BENJAMIN: Objection to form. Asked	
19	and answered. Vague. And outside the scope.	
20	THE DEPONENT: I think the issue is the	12:47:45
21	question assumes causality. If revenue changed in	
22	the last six months, there could be many reasons	
23	for that.	
24	Q. (By Ms. Weaver) Okay. But as you sit	
25	here I'll worry with my experts about causation.	12:47:58
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1	I'm simply trying to get the facts.	12:48:01
2	As you sit here, do you know if	
3	Facebook's revenue decreased after it deprecated	
4	political targeted advertising segments?	
5	MR. BENJAMIN: Objection to form. Asked	12:48:12
6	and answered. Vague. Argumentative. And outside	
7	the scope.	
8	THE DEPONENT: I do not know that our	
9	revenue decreased because of a removal of these	
10	targeting options. That is not something that we	12:48:25
11	can measure.	
12	Q. (By Ms. Weaver) That's not what I'm	
13	asking.	
14	Facebook deprecated political targeting	
15	segments in March 2020, correct?	12:48:32
16	A. 2022.	
17	Q. Sorry. 2022.	
18	Did Facebook's revenue for targeted	
19	advertising decrease in April 2022?	
20	MR. BENJAMIN: Objection to form. Asked	12:48:46
21	and answered repeatedly. Argumentative. Outside	
22	the scope.	
23	THE DEPONENT: I don't know how else to	
24	answer the question than to help disassociate these	
25	because if our our I would say our	12:49:01
		Page 164

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1	like quarterly statements represent what our	12:49:06
2	revenue is doing and those are not directly related	
3	in one-to-one fashion with any one product	
4	deprecation.	
5	Q. (By Ms. Weaver) I was just asking if	12:49:16
6	revenue decreased.	
7	Do you know the answer?	
8	MR. BENJAMIN: Same objections as the	
9	prior two questions.	
10	THE DEPONENT: I I would	12:49:24
11	MS. WEAVER: It's not. I don't have an	
12	answer.	
13	Q. (By Ms. Weaver) And I'm entitled to a	
14	direct either you know or you don't know. This is	
15	the question.	12:49:31
16	Between March of 2022 and April of 2022,	
17	did Facebook's targeted advertising revenue	
18	decrease?	
19	MR. BENJAMIN: Objection to form. Asked	
20	and answered. Argumentative. Vague. Outside the	12:49:45
21	scope.	
22	THE DEPONENT: I would have to reference	
23	our quarterly earning statements to answer that.	
24	And I don't know it more granularly.	
25	Q. (By Ms. Weaver) Do you receive reports	12:49:59
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_		
1	of Facebook's targeted advertising revenue on a	12:50:00
2	weekly or monthly basis?	
3	MR. BENJAMIN: Objection to form.	
4	Compound.	
5	THE DEPONENT: I personally do not	12:50:16
6	receive a continuous update of our revenue. No.	
7	Q. (By Ms. Weaver) Do you know if one	
8	exists at Facebook?	
9	I wasn't asking you personally. I was	
10	asking Facebook, the deponent.	12:50:29
11	So does Facebook prepare and circulate	
12	weekly or monthly snapshots of targeted advertising	
13	revenue?	
14	MR. BENJAMIN: Objection to form and	
15	scope.	12:50:42
16	THE DEPONENT: Can I ask a clarifying	
17	question, are you specifically when you say	
18	"targeted advertising revenue," do you just mean	
19	our ads business?	
20	Q. (By Ms. Weaver) What is targeting	12:50:54
21	A. Those are one and the same in my mind.	
22	But I want to	
23	Q. Okay.	
24	A make sure that's also the case in	
25	your what you're saying.	12:51:00
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Q. Yes. Fine. Ads business, but broken out	12:51:01
by with some granularity, as opposed to the	
public facing documents. So let me ask it again.	
Does Facebook prepare and circulate	
weekly or monthly snapshots of targeted advertising	12:51:16
revenue?	
MR. BENJAMIN: Objection to form.	
THE DEPONENT: We track revenue from our	
ads business. The it is not broken out by	
targeting by targeting option. That is not a	12:51:37
granularity, that we break it out, because it is	
not a measurement of revenue.	
Q. (By Ms. Weaver) Does it break it out by	
core audience, behavior and custom audience?	
MR. BENJAMIN: Objection to form.	12:51:55
THE DEPONENT: No.	
Q. (By Ms. Weaver) How does it break it	
out?	
A. It breaks it out by region, in the sense	
of where are we making this money and where	12:52:03
advertisers spending on our platform. And it	
breaks it out by usually by size of advertisers.	
So is this an advertiser we consider a small,	
medium business or a large advertiser.	
Q. And how often are these reports	12:52:22
	Page 167
	by with some granularity, as opposed to the public facing documents. So let me ask it again.  Does Facebook prepare and circulate weekly or monthly snapshots of targeted advertising revenue?  MR. BENJAMIN: Objection to form.  THE DEPONENT: We track revenue from our ads business. The it is not broken out by targeting by targeting option. That is not a granularity, that we break it out, because it is not a measurement of revenue.  Q. (By Ms. Weaver) Does it break it out by core audience, behavior and custom audience?  MR. BENJAMIN: Objection to form.  THE DEPONENT: No.  Q. (By Ms. Weaver) How does it break it out?  A. It breaks it out by region, in the sense of where are we making this money and where advertisers spending on our platform. And it breaks it out by usually by size of advertisers. So is this an advertiser we consider a small, medium business or a large advertiser.

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1	circulated?	12:52:24
2	MR. BENJAMIN: Objection to form and	
3	scope.	
4	THE DEPONENT: Our ads leadership teams	
5	might get these once a week.	12:52:38
6	Q. (By Ms. Weaver) What are they called?	
7	A. I honestly don't know what the name of	
8	the report or might be. I don't know.	
9	Q. Do you know who would know?	
10	MR. BENJAMIN: Objection to scope.	12:52:54
11	THE DEPONENT: Part of our analytics team	
12	would know. But I don't know a specific name.	
13	As I said, I I these those	
14	well, yeah.	
15	Q. (By Ms. Weaver) Who were the main	12:53:14
16	advertisers who were paying for political targeting	
17	segments between the time period 2014 to 2022?	
18	A. To clarify	
19	MR. BENJAMIN: Objection to form.	
20	THE DEPONENT: To clarify, when you say	12:53:28
21	"paying for political targeting segments," you mean	
22	choosing to run an ad with those as part of their	
23	desired audience"?	
24	Q. (By Ms. Weaver) Yes.	
25	A. Okay. I don't know the the advertiser	12:53:37
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1	entity breakdown for those over over seven	12:53:44
2	years. That that's not something I know off the	
3	top of my head.	
4	Q. I didn't ask for the advertising entity	
5	breakdown.	12:53:55
6	But can you name any companies who paid	
7	for political targeted advertising from the time	
8	period 2014 to 2022?	
9	MR. BENJAMIN: Objection to form.	
10	Argumentative. And scope.	12:54:08
11	THE DEPONENT: This I would be	
12	speculating without looking at that specifically.	
13	That would be something that we would look up more	
14	so than know generally.	
15	Q. (By Ms. Weaver) So the name	12:54:25
16	Cambridge Analytica doesn't come to mind?	
17	MR. BENJAMIN: Objection to form.	
18	Argumentative.	
19	THE DEPONENT: It didn't come to mind,	
20	no.	12:54:36
21	Q. (By Ms. Weaver) Was Cambridge Analytica	
22	one of the companies that paid Facebook for	
23	targeted political advertising during the time	
24	period 2014 to 2022?	
25	A. And, again, specifically meaning did	12:54:47
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1	Cambridge Analytica create an ad using those	12:54:49
2	targeting options?	
3	Q. Yeah.	
4	A. I I don't know.	
5	Q. Do you know whether or not	12:55:00
6	Cambridge Analytica paid Facebook \$100 million for	
7	advertising of a political nature in 2016?	
8	A. I do know that	
9	MR. BENJAMIN: Objection to form.	
10	THE DEPONENT: that	12:55:15
11	Cambridge Analytica advertised on our platform.	
12	Q. (By Ms. Weaver) But you don't know the	
13	amount and what for?	
14	A. I don't know the	
15	MR. BENJAMIN: Objection objection to	12:55:24
16	form and scope.	
17	THE DEPONENT: I do not know the exact	
18	amount or the exact targeting options that they	
19	choose for their desired audience.	
20	Q. (By Ms. Weaver) What do you know about	12:55:37
21	that topic?	
22	MR. BENJAMIN: Objection to form.	
23	Argumentative and scope.	
24	THE DEPONENT: About ad targeting? I'm	
25	happy to chat through more on the segments and	12:55:52
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1	how anything about those. I don't I'm I'm	12:55:54
2	not sure if that's what you meant or if you mean	
3	specifically Cambridge.	
4	Q. (By Ms. Weaver) I mean	
5	Cambridge Analytica, which is the trigger for this	12:56:02
6	lawsuit, and what Cambridge Analytica paid Facebook	
7	for targeted political advertising.	
8	A. I do not know details about the the	
9	Cambridge Analytica spend, specifically.	
10	Q. Do you know anything else about what	12:56:26
11	why Cambridge Analytica was paying Facebook for	
12	advertising in 2016?	
13	MR. BENJAMIN: Objection to both form and	
14	scope.	
15	THE DEPONENT: I think you're indicating	12:56:42
16	if there were other reasons they they paid us.	
17	I do not know of those.	
18	Q. (By Ms. Weaver) Did Facebook make	
19	changes to the political targeting segments in	
20	2018, as a result of the Cambridge Analytica	12:57:05
21	scandal?	
22	A. No.	
23	Q. And how do you know that?	
24	MR. BENJAMIN: Objection to form.	
25	THE DEPONENT: I was part of the team.	12:57:24
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1	But also from speaking to some of the throughout	12:57:26
2	my prep, in understanding how we evolved these	
3	segments, and it was not linked to	
4	Cambridge Analytica.	
5	Q. (By Ms. Weaver) When you said you were	12:57:39
6	part of the team, which team do you mean?	
7	A. I worked on ads as part of the policy	
8	team and at Meta working on ads.	
9	Q. And so what was the reason for making the	
10	changes to targeted advertising in 2018?	12:57:53
11	A. Specifically, the segments, we evolved	
12	the way we were creating them.	
17	Q. Right. You described that earlier.	
18	The question I asked you was why. What	
19	is the reason?	
20	A. Those were updated models that that	12:58:32
21	would function better to show people relevant ads.	
22	Q. How would they function better and how	
23	did you determine that?	
24	MR. BENJAMIN: Objection to form.	
25	THE DEPONENT: When those were options	12:58:52
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1	are added in, we found like those options	12:58:54
2	were performed better to show people relevant	
3	ads.	
4	Q. (By Ms. Weaver) How do you know they	
5	performed better?	12:59:03
6	A. We saw advertisers using them, and we saw	
7	people engaging with those ads.	
8	Q. Were there reports generated that	
9	reflected data to you that indicated that these ads	
10	were performing better prior to making the change?	12:59:19
11	A. Meaning specifically was there a live	
12	test for this?	
13	Q. I'm trying to understand the information	
14	that you use when you decided to make this change.	
15	Just just telling me that you made the	12:59:35
16	change doesn't explain why. So	
17	A. Yeah.	
18	Q I'm trying to understand the	
19	information that you used to make this change.	
20	Were there studies? Were there analyses?	12:59:44
21	MR. BENJAMIN: Objection to form.	
22	Q. (By Ms. Weaver) I'll ask the question	
23	again.	
24	Were there reports generated that	
25	reflected data that indicated these ads were	12:59:54
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1	performing better, prior to making the change?	12:59:56
2	A. Not in the form of a before and after	
3	snapshot. Our teams build new targeting options	
4	because they want to evolve the platform and evolve	
5	the tools we offer.	01:00:20
6	This is an example of that, where the	
7	2014 to 2018 method of creating those segments	
8	wasn't what our what the team felt was like the	
9	best way to do it. And so they created the next	
10	version which was an updated way that used content	01:00:39
11	engagement and performed well for those ads. In	
12	that when we launched those, advertisers used them	
13	and people saw and engaged with the ads.	
14	Q. Did Facebook make any changes to how it	
15	conducted political targeted advertising as a	01:00:58
16	result of the Cambridge Analytica scandal?	
17	MR. BENJAMIN: Objection to form.	
18	THE DEPONENT: No.	
19	Q. (By Ms. Weaver) Okay. So Facebook	
20	provides metrics to advertisers about their	01:01:35
21	advertisements, correct?	
22	A. Yes.	
23	Q. What metrics does Facebook provide?	
24	A. We provide performance metrics to	
25	advertisers.	01:01:46
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1	Q. Do you do those through the ad manager	01:01:50
2	tool?	
3	A. That is an example place where where	
4	most advertisers reference and get those, yes.	
5	Q. And what is the ad manager tool?	01:02:00
6	A. Ads manager is the UI that advertisers	
7	can both place their ads. So create the ad, upload	
8	the content for it. And then also come back to, to	
9	understand how the ad is performing.	
10	Q. And what is ads does does Facebook	01:02:18
11	also provide metrics through ads APIs?	
12	A. Yes.	
13	Q. And what are those and what information	
14	does it provides through them?	
15	A. An API	01:02:33
16	MR. BENJAMIN: Objection to form.	
17	THE DEPONENT: An API is a is a way to	
18	programmatically call information instead of using	
19	our our built interface. The API includes the	
20	same information. So for an ad, it would include	01:02:51
21	the impressions and clicks, and the performance	
22	metrics that for any given ad.	
23	Q. (By Ms. Weaver) And does Facebook also	
24	perform an analysis of the quality of the ad?	
25	MR. BENJAMIN: Objection to form.	01:03:14
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1	THE DEPONENT: I want to be sure this is	01:03:17
2	in the context that you're thinking of.	
3	Q. (By Ms. Weaver) Okay.	
4	A. As part of ad delivery, our as part of	
5	our total value equation that I was talking about	01:03:25
6	earlier, we do include ad quality. And that is our	
7	prediction of of the the type of ad and	
8	whether it is sensational or or "click-baity,"	
9	or the quality of the images of the ad.	
10	Q. When you say "sensational," what do you	01:03:45
11	mean?	
12	A. Similar to click bait. It's when like	
13	the text is is "Ten great tips for" is an	
14	example of sensational click bait text.	
15	Q. So what do you mean by sorry but	01:04:05
16	for the record, what do you mean by click bait?	
17	A. Click bait is and I will I'll is	
18	like an industry concept around ads, which is	
19	usually that the ad does not provide the actual	
20	message. It is meant to entice someone to click.	01:04:21
21	So it's a catchy headline in order to get to the	
22	content somewhere else.	
23	Q. And do advertisers pay more for click	
24	bait?	
25	MR. BENJAMIN: Objection to form and	01:04:41
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1	scope.	01:04:42
2	THE DEPONENT: So the importance of ad	
3	quality in our in our delivery system is to help	
4	us ensure that we're taking into consideration	
5	different parts of the ad in order to determine who	01:04:51
6	should see it.	
7	So the advertiser bid is part of it. The	
8	estimated action rate, which represents like	
9	people's interest, and the ad quality. An ad of	
10	lower quality is less likely to be delivered. An	01:05:06
11	ad of higher quality that doesn't have click-baity	
12	content in it is more likely to be delivered.	
13	Q. (By Ms. Weaver) So how does Facebook	
14	analyze ad quality?	
15	A. By analyze, we we look as part of	01:05:23
16	our ad delivery, it's the machine-learning	
17	models also look at the text of the ad, the images.	
18	And whether it's been whether people have hidden	
19	it. And kind of user feedback on it as well to	
20	establish if it the a prediction of ad	01:05:41
21	quality.	
22	Q. And what are the factors that tend to	
23	cause people to take action about an ad which	
24	increases its ad quality?	
25	A. Sorry. Can you clarify. People take	01:05:58
		Page 177

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1	action on an ad that increases its ad quality?	01:06:00
2	Q. Okay. Well, you described that one of	
3	the components is, for example, whether people have	
4	hidden an ad, as well as user feedback, right?	
5	A. Yes.	01:06:12
6	Q. Would you describe people hiding an ad as	
7	taking action?	
8	A. I would. It doesn't increase ad quality.	
9	Q. Okay. Are there actions that people take	
10	that do increase ad quality?	01:06:22
11	A. No. We use it as a way to understand if	
12	people are seeing something problematic. So it is	
13	an indication of someone not wanting to seek	
14	content and that's what feeds into ad quality.	
15	Q. And how do you infer that people do not	01:06:41
16	want to see content?	
17	A. By choosing to hide the ad, which is a	
18	choice on on an ad for people.	
19	Q. And so does Facebook take steps to try to	
20	identify what ad users do not want to see?	01:06:55
21	MR. BENJAMIN: Objection to form.	
22	THE DEPONENT: Can you clarify if you	
23	mean generally as part of ad quality	
24	Q. (By Ms. Weaver) Yes.	
25	A or on a more individual level?	01:07:11
		Page 178

# Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 180 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	Q. Generally, as part of ad quality.	01:07:14
2	A. That's precisely why we include ad	
3	quality in our ad delivery is so that there is	
4	part a feedback loop from someone potentially	
5	not wanting to see something that feeds into our	01:07:24
6	our ad delivery. Because the goal of that delivery	
7	is to show people ads they want to see.	
8	Q. And what is the purpose of an ad quality	
9	score in providing it to advertisers?	
10	A. It provides advertisers with transparency	01:07:40
11	into how the part of their ad performance.	
12	Q. Is it true that advertisers will pay more	
13	for ads with a higher ad quality score?	
14	MR. BENJAMIN: Objection to scope.	
15	THE DEPONENT: Can you clarify what you	01:08:04
16	mean "pay more for."	
17	Q. (By Ms. Weaver) Yes.	
18	How is Facebook compensated for	
19	advertising?	
20	A. Advertisers create the ad and they pay	01:08:14
21	for the the delivery of that ad for for	
22	the the every time the ad is shown.	
23	Q. And if advertisers don't buy ads on	
24	Facebook, Facebook doesn't earn money from them,	
25	right?	01:08:34
		Page 179

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1	A. We would not have ad spend from them,	01:08:37
2	correct.	
3	Q. And is ad spend affected by increasing ad	
4	quality scores at Facebook?	
5	A. So to clari	01:08:52
6	MR. BENJAMIN: Objection to form.	
7	THE DEPONENT: To clarify, ad spend is	
8	based on how often or the fact that we've shown	
9	the ad. So it is separate from ad score.	
10	Ad score is part of the delivery to	01:09:06
11	determine who sees the ad. It's not that they are	
12	paying for ad score.	
13	Q. (By Ms. Weaver) Right. I understand	
14	that.	
15	A. Okay.	01:09:17
16	Q. This is not very complicated, and I'm	
17	just trying to get something basic established,	
18	right.	
19	Facebook creates ad scores so as a	
20	marketing tool to encourage people to advertise on	01:09:25
21	Facebook because you're saying, look, these are	
22	high-quality ads and you're getting responses.	
23	Is that fair?	
24	MR. BENJAMIN: Objection to form.	
25	THE DEPONENT: No. It's our assessment	01:09:34
		Page 180

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1	of the quality of their ads so that they understand	01:09:36
2	if they had low performance, if it's due to a low	
3	quality ad, or if they need to increase their	
4	performance or increase the quality of their ads	
5	in order to see better performance, because people	01:09:49
6	like better ads than bad ads.	
7	Q. (By Ms. Weaver) Right. And when ads are	
8	performing ing better, advertisers buy more of them	
9	as opposed to less of them because they're not	
10	performing better, right?	01:09:59
11	MR. BENJAMIN: Objection to form and	
12	scope.	
13	THE DEPONENT: I think the courts	
14	Q. (By Ms. Weaver) Do advertisers like to	
15	pay for low performing ads or high performing ads?	01:10:14
16	A. Advertisers wouldn't be paying if the ad	
17	isn't performing. Their spend is based on the ad	
18	actually being shown and the action being taken.	
19	Q. So increasing the performance of the ad	
20	increases the advertiser's ad spend, correct?	01:10:31
21	MR. BENJAMIN: Objection to form.	
22	THE DEPONENT: I think we're using the	
23	the words differently here.	
24	It's it's that their spend is	
25	proportional to people taking the action on their	01:10:48
		Page 181

# Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 183 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	ad. People taking that action is because they want	01:10:52
2	to state this was an ad that was relevant and so	
3	they might click on it. And then an advertiser	
4	pays for that.	
5	If an ad score is low, the people are	01:11:02
6	less likely to take that action. And it is a way	
7	for advertisers to understand how to create a	
8	better ad, if they want to. There is no	
9	requirement to. But if they want to create a	
10	better ad and then see better performance, because	01:11:19
11	that ad is a better ad, they will then pay for the	
12	better performance.	
13	Q. (By Ms. Weaver) Exactly.	
14	And so it's in Facebook's financial	
15	interest to identify the kinds of ads people do not	01:11:32
16	want to see because they will not take action and	
17	the advertiser will not pay Facebook, because it's	
18	not a higher performing ad, right?	
19	MR. BENJAMIN: Objection to form.	
20	THE DEPONENT: I think what you've	01:11:51
21	identified is the fact that we should want to show	
22	good ads because it's better for both people who	
23	want to see better ads and don't want terrible ads	
24	in their newsfeed and for advertisers because now	
25	they're connected in with a user.	01:12:04
		Page 182

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1	That is very different than a marketing	01:12:06
2	play that I think is being described here. It is	
3	simply that we want better ads on the platform and	
4	this is an example of that.	
5	Q. (By Ms. Weaver) Why does Facebook want	01:12:17
6	better ads on the platform?	
7	A. To provide a free service to people.	
8	Q. It's not because Facebook wants to make	
9	more money?	
10	You remember that you're under oath.	01:12:26
11	A. We make money to provide a free service	
12	to people.	
13	Q. Okay. Does Facebook	
14	MR. BENJAMIN: An objection to the last	
15	question.	01:12:34
16	Q. (By Ms. Weaver) Does Facebook make more	
17	money when people take more actions on ads?	
18	MR. BENJAMIN: Objection to form.	
19	THE DEPONENT: Yes.	
20	Q. (By Ms. Weaver) Thank you.	01:12:51
21	In preparing for your deposition, did you	
22	review any reports that Facebook provides to	
23	advertisers that reflects the metrics of their	
24	advertising campaigns?	
25	A. I I didn't review any specific	01:13:18
		Page 183

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1	reports.	01:13:20
2	Q. Do you review them on a daily basis?	
3	A. Through the course of my job, no.	
4	Q. Are they did you at one point when you	
5	were in ads integrity?	01:13:31
6	MR. BENJAMIN: Objection	
7	THE DEPONENT: Review	
8	MR. BENJAMIN: Objection to scope.	
9	THE DEPONENT: Review reports about	
10	advertisers?	01:13:41
11	Q. (By Ms. Weaver) Let me rephrase the	
12	question.	
13	Facebook provides	
14	A. Yes.	
15	Q provides analytics to advertisers	01:13:45
16	through at least two kinds of tools, right?	
17	A. Yes.	
18	Q. What do those reports look like?	
19	MR. BENJAMIN: Objection	
20	THE DEPONENT: In	01:13:56
21	MR. BENJAMIN: to form.	
22	THE DEPONENT: In ads manager, it will	
23	show for that ad, as an example, the aggregate	
24	count of impressions or clicks it received and the	
25	amount spent. The same information would be	01:14:07
		Page 184

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1	provided in the API for someone to call if they	01:14:10
2	wanted outside of the UI.	
3	Q. (By Ms. Weaver) And did you, in	
4	preparing for this deposition today, review any	
5	such reports?	01:14:20
6	A. I did not go and specifically look up an	
7	ads report, no.	
8	Q. Can you identify the all of the exact	
9	metrics that are provided to advertisers?	
10	MR. BENJAMIN: Objection to form and	01:14:37
11	scope.	
12	THE DEPONENT: Not off the top of my	
13	head. I can explain the buckets of performance	
14	metrics that we provide.	
15	Q. (By Ms. Weaver) Okay. What are the	01:14:52
16	buckets?	
17	A. As I said, they're those center around	
18	the the performance of the ad. So how many	
19	impressions has it shown. How many clicks has it	
20	generated. How many people have taken the action	01:15:06
21	that the advertiser, the that objective.	
22	Ad score is also included and the amount	
23	spend. So that an advertiser understands how their	
24	ad is delivering on Facebook.	
25	Q. And just to address again an out-of-scope	01:15:21
		Page 185

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1	objection, at the bottom of page 2 of Exhibit 657,	01:15:26
2	it says, "Ms. Leone will be prepared to discuss:	
3	The metrics Facebook provides advertisers about	
4	their advertisements, which Facebook provides	
5	through its Ad Manager tool and Ads APIs."	01:15:39
6	So you can describe the buckets, but you	
7	can't identify all of the specific metrics; is that	
8	right?	
9	A. I don't have memorized line item every	
10	single metric. But, yes, the purpose and the fact	01:15:55
11	that we provide how the ad is delivering, the	
12	actions people have taken, and the ad score and ad	
13	spend.	
14	Q. And has that changed over time from 2007	
15	to the present?	01:16:10
16	A. Our UIs have changed over time and so the	
17	format of those has changed, yes.	
18	Q. And what has changed?	
19	A. The way we display those has changed. As	
20	we add in a new objectives, also the type of metric	01:16:28
21	that relates to it would have been added in as	
22	well.	
23	Q. When you say "type of metric that relates	
24	to it," what do you mean?	
25	A. For example, a click, or if you run a	01:16:39
		Page 186

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1	a page like ad, we will show you how many people	01:16:42
2	actually liked the page from that ad, which is	
3	different from if you run a website click ad, how	
4	many people clicked because the action they took is	
5	different. So the metric would would be related	01:16:59
6	to the action taken.	
7	Q. How does Facebook decide what to charge	
8	for the ads that it serves for advertisers?	
9	A. Our there are two parts to this,	
10	primarily. There's the advertiser sets a bid. So	01:17:23
11	they decide how much they want to pay to show the	
12	ad to their desired audience.	
13	And then in our ad auction, we take that	
14	into account. We know for a given user all of the	
15	ads they're eligible to see and the bids for those	01:17:42
16	ads. And out of the total value equation, we	
17	determine which ads should win the auction. At	
18	that point they are charged the second highest bid.	
19	Q. And when you say you take into account an	
20	ads a given user can see, does Facebook perform a	01:18:02
21	calculation of the revenue that has been associated	
22	with given users?	
23	A. Can you can you clarify what you mean	
24	there?	
25	Q. Does Facebook perform a calculation of	01:18:19
		Page 187

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1	revenue that has been associated with ads served to	01:18:21
2	a given user?	
3	A. I understand you to mean whether we	
4	calculate the total amount of that we were paid	
5	for an impression to show a specific user?	01:18:35
6	Q. Yes.	
7	A. No.	
8	Q. Facebook does and can identify all the	
9	ads that were shown to a specific user, right?	
10	A. Yes.	01:18:48
11	Q. And Facebook can also calculate how much	
12	it was paid for a given ad campaign in which those	
13	ads were shown, right?	
14	A. The total spend, yes.	
15	Q. And so you would calculate the total	01:18:59
16	spend by the number of users who received that ad,	
17	if you wanted to calculate the average revenue per	
18	user, right?	
19	MR. BENJAMIN: Objection to form.	
20	THE DEPONENT: So calculating the total	01:19:13
21	spend of an ad would not get me to the individual	
22	revenue from showing an ad to one user.	
23	Q. (By Mr. Benjamin) If you divided the	
24	number of users by the total spend, why wouldn't	
25	that give you an average revenue per user?	01:19:28
		Page 188

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1	A. For that one ad?	01:19:31
2	Q. Or campaign, or for an ad, sure.	
3	A. Sorry.	
4	So to clarify, if you have the total	
5	spend from a specific ad, and you know the 200	01:19:39
6	people who saw that ad, yes, you could divide the	
7	total spend by the 200 impressions, and then say	
8	there's a cost per impression.	
9	Q. And does Facebook calculate whether	
10	certain Facebook users generate more revenue for	01:19:58
11	Facebook than others	
12	A. No.	
13	Q based on their responses to	
14	advertising?	
15	A. No.	01:20:09
16	Q. So, in fact, all Facebook users are	
17	viewed equally by Facebook with regard to the	
18	amount of revenue that they generate for Facebook;	
19	is that fair?	
20	MR. BENJAMIN: Objection to form.	01:20:20
21	Misstates.	
22	THE DEPONENT: I we just we don't	
23	have an assessment of user by user revenue	
24	associated with them.	
25	Q. (By Ms. Weaver) Great.	01:20:38
		Page 189

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1	Did Facebook at some time engage in	01:20:39
2	efforts to restrict advertisers' use of	
3	advertising-related data?	
4	MR. BENJAMIN: Objection to form.	
5	THE DEPONENT: For advertising-related	01:21:08
6	data, do you mind clarifying kind of what you're	
7	what you're thinking of there	
8	Q. (By Ms. Weaver) Sure.	
9	A just so that I'm	
10	Q. Sure.	01:21:15
11	I'm I'm reading actually from your	
12	counsel's letter ad page 3, and it says "Ms. Leone	
13	will be prepared to discuss: Facebook's policies	
14	restricting advertisers' use of advertising-related	
15	data (i.e. limiting it to its 'use case')."	01:21:28
16	A. Yes.	
17	Q. What is	
18	A. So	
19	Q. Go ahead let me ask the question.	
20	A. Yeah. Yeah, please.	01:21:41
21	Q. What does advertising-related data mean	
22	in that sentence?	
23	A. I'm not 100 percent sure exactly what it	
24	means here. But this is meant to indicate that we	
25	have terms and policies around the use of data	01:21:57
		Page 190

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1	that's related to ads, and this references that.	01:22:03
2	So as an example, we have custom audience	
3	terms, and we have business tool terms.	
4	Q. So what are the custom audience terms?	
5	A. When someone uploads a customer list,	01:22:25
6	they agree to those terms. And those are the	
7	policies that in order to use that product.	
8	Q. What is a customer list?	
9	A. A customer list is one of the types of	
10	custom audiences. It's a targeting option that an	01:22:44
11	advertiser can use.	
12	Q. Okay. Let's talk about custom audiences	
13	for a minute and take a pause.	
14	What are custom audiences?	
15	A. Custom audiences was one of that that	01:22:59
16	kind of like third bucket of targeting tool types.	
17	Within it, customer list is one where an advertiser	
18	uploads a a list of their existing customers.	
19	Q. And does Facebook then possess the	
20	customer list?	01:23:20
21	A. No. We hash the list when an advertiser	
22	uploads it, the identifiers in that list. And then	
23	we compare it to our hash data to understand a	
24	match. And then we delete the advertiser list.	
25	And we do not send them back information about the	01:23:40
		Page 191

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1	users who matched.	01:23:44
2	Q. So what analytics does Facebook provide	
3	advertisers who advertise through custom audiences?	
4	A. When an advertiser creates a custom	
5	audience or the customer list, specifically,	01:23:56
6	here they would understand within ranges the	
7	size of it. And when they then use it for their	
8	audience, they would get the same reporting metrics	
9	that we or performance metrics that we provide	
10	for any ad.	01:24:14
11	Q. And over time has the size of the of a	
12	custom audience that an advertiser collects change?	
13	MR. BENJAMIN: Objection to form.	
14	THE DEPONENT: Can you clarify what you	
15	mean by "advertiser collect" here?	01:24:28
16	Q. (By Ms. Weaver) Sorry.	
17	Over time has the size of a custom	
18	audience targeted by an advertiser changed?	
19	MR. BENJAMIN: Objection to form.	
20	THE DEPONENT: The customer list is	01:24:47
21	provided by the advertiser. That is something that	
22	they decide. The size of and and bringing	
23	and uploading. So really this is is independent	
24	of us. They they make that choice based on	
25	their existing customers and their desired	01:25:04
		Page 192

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1	audience.	01:25:07
2	Q. (By Ms. Weaver) Does Facebook also	
3	create custom audiences not from customer lists but	
4	through other characteristics?	
5	A. There were the two other types of custom	01:25:17
6	audiences. One is based on our business tools, so	
7	website custom audiences or an app custom audience.	
8	And then the other category was based on engagement	
9	custom audiences, which is engagement with people	
10	who have interacted with your page on Facebook.	01:25:37
11	Q. So what are website or app custom	
12	audiences?	
13	A. Website and app custom audiences are	
14	reengagement through our business tools. So when a	
15	website owner or an app developer has our business	01:25:58
16	tools, as an example, a website could say, "I'll	
17	put the Pixel on the check-out."	
18	They would then be able to use the	
19	targeting tool to or the targeting option of	
20	website custom audiences to reengage with people	01:26:15
21	who have taken that action on their website.	
22	THE DEPONENT: And apologies. Is my	
23	video jumpy to anyone else? It's a little bit	
24	Okay.	
25	MS. WEAVER: We can go off the record, if	01:26:26
		Page 193

# Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 195 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	you're having an issue.	01:26:27
2	THE DEPONENT: No, we're good.	
3	Q. (By Ms. Weaver) Okay. And the second is	
4	engagement audiences; is that correct?	
5	A. Engagement custom audiences, yes.	01:26:50
6	Q. And what are those?	
7	A. Those are based on on-site engagement.	
8	So a Facebook page, the followers of that Facebook	
9	page, the advertiser for that page would be able to	
10	reengage with that group of users by saying "I want	01:27:03
11	to reach back to people who've engaged with my"	
12	"or followed my page."	
13	Q. And with regard to any of these three	
14	kinds of audiences, has Facebook imposed	
15	restriction on the size of the audiences that	01:27:20
16	advertisers may target from 2007 to the present?	
17	A. Yes.	
18	Q. Why?	
19	A. We've we have a minimum of the	
20	audience size we'll deliver to help ensure that	01:27:35
21	advertisers aren't distilling information from	
22	from that delivery.	
23	Q. And how has it changed specifically over	
24	time?	
25	MR. BENJAMIN: Objection to form.	01:27:49
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1	THE DEPONENT: Those thresholds have	01:27:52
2	have changed they've increased. So for example,	
3	it increased I know like for customer lists, it	
4	is 100. We have to have 100 match in order to use	
5	that audience.	01:28:12
6	Q. (By Ms. Weaver) This is as of 2022?	
7	A. It is current, yes. And over time	
8	that that was increased. There was always a	
9	minimum, and I believe I don't know exactly what	
10	that was. But it we've seen we have	01:28:29
11	revisited those thresholds. And we increased them,	
12	I believe, in 2018.	
13	Q. Do you know generally what range they	
14	were in prior to 2018?	
15	MR. BENJAMIN: Objection to form.	01:28:54
16	THE DEPONENT: I don't. I don't recall	
17	specifically what they were.	
18	Q. (By Ms. Weaver) Was it less than 20?	
19	A. No. No.	
20	Q. Was there any point in time in which	01:29:10
21	in from 2007 to the present, at which	
22	advertisers could target custom audiences of	
23	20 people or fewer?	
24	MR. BENJAMIN: Objection to form.	
25	THE DEPONENT: No, fewer than 20 people	01:29:28
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1	is not allowed and it has not been allowed in a	01:29:29
2	custom audience. And we don't enable an advertiser	
3	to target singular users. That's that's been	
4	that's partly why we have this protection in place.	
5	Q. (By Ms. Weaver) And why is that?	01:29:41
6	Why won't Facebook allow advertisers to	
7	target singular users?	
8	A. That's not the way we've built our	
9	targeting system. One of our core areas is that we	
10	don't tell an advertiser who you are or provide	01:29:56
11	information to them for that purpose. And a a	
12	protection to do that is to ensure that there is an	
13	audience minimum.	
14	Q. And I'm under I understand you're	
15	saying what.	01:30:09
16	But I'm asking again, why doesn't	
17	Facebook allow individual users to be targeted?	
18	A. Because we we don't want an advertiser	
19	to have information about an individual user. That	
20	is the way we've set up our system.	01:30:23
21	Q. And why doesn't Facebook want an	
22	advertiser to have information about an individual	
23	user?	
24	MR. BENJAMIN: Objection to form. Asked	
25	and answered.	01:30:33
		Page 196

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1	THE DEPONENT: We we specifically tell	01:30:38
2	users that we don't tell an advertiser about them.	
3	And we've consistently maintained that. And that's	
4	also why we build our products to ensure that	
5	with the protection so that that's not the outcome.	01:30:49
6	Q. (By Ms. Weaver) And why does Facebook	
7	specifically tell users that it will not allow	
8	advertisers to individually identify them?	
9	MR. BENJAMIN: Objection to form.	
10	THE DEPONENT: I'm not sure how to answer	01:31:07
11	this differently.	
12	But it's our system we we built	
13	our system with that as a guiding principle because	
14	we think that's an important part of being on	
15	Facebook and so we've maintained that. And these	01:31:18
16	are some of the protections that help to maintain	
17	that.	
18	Q. (By Ms. Weaver) Is it because Facebook	
19	has promised users privacy?	
20	MR. BENJAMIN: Objection to form. Asked	01:31:30
21	and answered.	
22	THE DEPONENT: I I think we're very	
23	up front with users that we show ads and how our	
24	system works, including this portion of it. And	
25	this helps us ensure that that's the case.	01:31:47
		Page 197

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1	I don't think we've we relate it to a	01:31:50
2	nondefined concept of privacy in the way that we're	
3	talking about it right now.	
4	Q. (By Ms. Weaver) So Facebook is not	
5	preventing advertisers from targeting individual	01:32:05
6	users because of privacy concerns; is that your	
7	testimony?	
8	A. That is not my testimony.	
9	MR. BENJAMIN: Objection. Yeah, and	
10	objection	01:32:16
11	MS. WEAVER: I'm just trying to get	
12	MR. BENJAMIN: I'm sorry.	
13	MS. WEAVER: I'm sorry.	
14	MR. BENJAMIN: We went out of order.	
15	Sorry.	01:32:20
16	Objection to form. Misstates.	
17	Argumentative.	
18	You can answer.	
19	THE DEPONENT: It's not my testimony.	
20	Q. (By Ms. Weaver) I'm going to ask you	01:32:26
21	again, is Facebook preventing advertisers from	
22	targeting individual users to protect users'	
23	privacy?	
24	A. We do not want we don't allow an	
25	advertiser to target an individual user. And we	01:32:45
		Page 198

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1	don't tell advertisers who saw their ad so that	01:32:48
2	they learn about individual users. And we we	
3	state that to users.	
4	Q. I just this is this is getting very	
5	frustrating in this deposition because you're just	01:33:00
6	repeating the facts and I am trying to ask why.	
7	So what is the reason that Facebook built	
8	its platform so that in advertisers could not	
9	target individual users?	
10	MR. BENJAMIN: Objection to form.	01:33:19
11	Argumentative. Asked and answered.	
12	You can answer.	
13	THE DEPONENT: This is one of our guiding	
14	principles for our ad system. It's part of how	
15	we've built it and how we help users understand and	01:33:32
16	maintain their trust with Facebook.	
17	Q. (By Ms. Weaver) Can you confirm that one	
18	of the reasons Facebook did that was to protect	
19	users' privacy?	
20	MR. BENJAMIN: Objection to form.	01:33:47
21	THE DEPONENT: Can you provide an example	
22	of what it is you mean by users' privacy and	
23	protecting it?	
24	Q. (By Ms. Weaver) Well, let me go back to,	
25	you said it was a guiding principle of Facebook,	01:33:57
		Page 199

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1	right?	01:34:00
2	A. For building our ad system, yes.	
3	Q. Why is it a guiding principle?	
4	A. Because we wanted to ensure that people	
5	both like trust the information they provide us and	01:34:14
6	continue to use our platform. And this was one of	
7	the areas where that was important.	
8	MS. WEAVER: Thank you.	
9	MR. BENJAMIN: Ms. Weaver, we've been	
10	we've been going for a good time, over an hour.	01:34:29
11	Would would now be a good time for a	
12	break?	
13	MS. WEAVER: Just give me a moment.	
14	MR. BENJAMIN: Of course.	
15	Q. (By Ms. Weaver) You said that Facebook	01:34:43
16	at no time allowed advertisers to target a custom	
17	audience of 20 or fewer.	
18	Do you recall that?	
19	A. Fewer than 20.	
20	MR. BENJAMIN: Objection. Misstates	01:34:54
21	testimony.	
22	Q. (By Ms. Weaver) Right.	
23	What is the what is the lowest number	
24	that Facebook has permitted advertisers to target	
25	in terms of the size of a custom audience?	01:35:04
		Page 200

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1	A. I believe the customer list is 20.	01:35:08
2	Q. And what is the lowest number for the	
3	other two kinds of audiences?	
4	A. I believe also 20.	
5	MS. WEAVER: Great.	01:35:27
6	We can take a break.	
7	THE VIDEOGRAPHER: Okay. We're off the	
8	record. It's 1:35 p.m.	
9	(Recess taken.)	
10	THE VIDEOGRAPHER: We're back on the	01:55:02
11	record. It's 1:55 p.m.	
12	(Exhibit 658 was marked for	
13	identification by the court reporter and is	
14	attached hereto.)	
15	MS. WEAVER: I'm going to show you what	01:55:09
16	has been marked or will be marked Exhibit 658.	
17	And for the record, it bears	
18	Bates numbers FB-CA-MDL-03969899 through -907.	
19	And I think it's up.	
20	THE DEPONENT: I have it up.	01:55:33
21	Q. (By Ms. Weaver) Okay. Great.	
22	When you have a moment, please just tell	
23	me what it is.	
24	A. This was similar like a blog post that	
25	we put on our business blog that explains machine	01:55:54
		Page 201

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1	learning in ad delivery.	01:55:57
2	Q. And looking to the second page of the	
3	document ending in Bates number900 are the	
4	last three digits.	
5	A. Yup.	01:56:08
6	Q. Do you see where it says first, "How	
7	does Facebook decide which ads to show people," and	
8	then there's an answer below the question, right?	
9	A. Yes.	
10	Q. And the second paragraph begins or	01:56:18
11	second paragraph begins "First, advertisers choose	
12	their target audience through our self-service	
13	tools."	
14	Do you see that?	
15	A. Yes.	01:56:30
16	Q. So specifically, which target audience is	
17	this document referring to here?	
18	A. This refers to the audience selection	
19	tools that an advertiser has in ads in something	
20	like ads manager.	01:56:47
21	I don't know if you mean specifically	
22	what does the hyperlink go to.	
23	Q. Well, that would be helpful, too.	
24	A. Okay. That I don't know off the top of	
25	my head. So that might be yeah.	01:56:59
		Page 202

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1	Q. Earlier you described different kinds of	01:57:02
2	custom audiences.	
3	Do you recall that?	
4	A. Yes.	
5	Q. So which audiences are being described	01:57:07
6	here?	
7	A. This paragraph describes the totality of	
8	the way an advertiser can select their audience.	
9	It's not specific to custom audiences.	
10	Q. So when, for example, an advertiser wants	01:57:21
11	to use behaviors to target, they first start here	
12	with this target audience; is the right?	
13	A. What this sentence refers to is in ads	
14	manager when someone goes in to select their	
15	desired audience, it's talking about all of the	01:57:39
16	options there of which one is behaviors. One	
17	category is behaviors. Custom audience is another	
18	category.	
19	Q. Okay. And looking at the next page	
20	ending at Bates number -901, do you see a graph on	01:57:55
21	that page?	
22	A. I see the total value equation drawn out.	
23	Q. What is the total value equation?	
24	A. Total value equation is the description	
25	of our ad auction in the in in ad delivery.	01:58:13
		Page 203

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1	Q. I'm sorry.	01:58:20
2	You said it's the "description of our ad	
3	auction in ad delivery"?	
4	A. Our so sorry.	
5	Our ad delivery choosing the ad that	01:58:35
6	we will show someone is based on our auction.	
7	Total value score is how we make that	
8	determination. It's the machine learning that is	
9	used in ad delivery to make the determination of	
10	which ad wins the auction.	01:58:52
11	Q. Okay. So the algorithm is performing an	
12	analysis of the three factors below the words	
13	"Total Value" in the graph to determine which ad is	
14	shown; is that right?	
15	A. Multiple yes. Machine learning models	01:59:06
16	are performing that, yes.	
17	Q. And even though it says "Total Value,"	
18	what that actually means is the ad that is shown?	
19	A. Every ad that a person is eligible to see	
20	receives a total value score, and then the ad that	01:59:19
21	has the highest total value score wins the auction.	
22	Q. And when it wins the auction	
23	A. It doesn't show.	
24	Q is Facebook then paid revenue for the	
25	total value ad that's selected?	01:59:39
		Page 204

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1	MR. BENJAMIN: Objection	01:59:44
2	THE DEPONENT: The ad that	
3	MR. BENJAMIN: Objection to form.	
4	THE DEPONENT: And apologies. I didn't	
5	mean to interrupt your question there.	01:59:50
6	The total value score is calculated. The	
7	one with the highest total value wins the auction	
8	and that is the ad we show a user. An advertiser	
9	pays for the performance of their ads and the	
10	number of times an ad is shown.	02:00:04
11	Q. (By Ms. Weaver) Got it.	
12	So looking at the components of total	
13	value, there's the "Advertiser Bid," which we	
14	discussed, right?	
15	A. Yes.	02:00:15
16	Q. And then it says "Estimated Action Rate."	
17	What is that?	
18	A. The estimated action rate is the	
19	likelihood of someone taking the action that aligns	
20	with the advertiser's objective.	02:00:26
21	Q. And this document describes that as the	
22	business objective, right?	
23	A. Yes, that's the name of the the ad	
24	objective.	
25	Q. And that could be a click or a view or an	02:00:41
		Page 205

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1	impression, or something else, right?	02:00:43
2	MR. BENJAMIN: Objection to form.	
3	THE DEPONENT: Yes. It could be that the	
4	advertiser is trying to has an ad with a call to	
5	action to go to a website to sign up to like a page	02:00:58
6	for brand awareness. Those are their objectives.	
7	Why are they running this ad.	
8	Q. (By Ms. Weaver) And how does Facebook	
9	calculate the estimated action rate?	
10	A. The estimated action rate, which is for	02:01:16
11	the person we're thinking about showing this ad to,	
12	is the likelihood that they will take that action.	
13	And that's based on their activity on Facebook.	
14	These are the machine-learning models that are	
15	that are involved. And they take into	02:01:31
16	consideration activity on Facebook. So the pages,	
17	an ad someone has interacted with. The way they've	
18	interacted with those. And then also activity off	
19	of Facebook such as on websites and apps.	
20	Q. And just to clarify testimony earlier,	02:01:49
21	for detailed targeting, the underlying activity	
22	that is the basis for determining interests and	
23	behaviors, are those the same set of inputs?	
24	And let me just I'll ask a bad	
25	question and then I'll ask a good one.	02:02:28
		Page 206

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1	I thought when we talked the first time	02:02:30
2	that interests were not based on off-platform	
3	activity and that they were limited to maybe only	
4	pages and groups. But that behaviors incurred	
5	behaviors are based on basically almost all the	02:02:40
6	activity on Facebook with some exemptions and	
7	off-platform.	
8	MR. BENJAMIN: Objection to form.	
9	Q. (By Ms. Weaver) Is that roughly	
10	accurate?	02:02:56
11	A. You're correct that there are distinction	
12	between interests and behaviors. Interests are	
13	based on on-site page and ad interaction.	
14	Behaviors are a broader set of activity on-site.	
15	Yeah, I think that clarifies kind of what	02:03:08
16	you were getting at.	
17	Q. Okay. And and behavior is also	
18	offsite, correct?	
19	MR. BENJAMIN: Objection to form.	
20	THE DEPONENT: No, I so behavior	02:03:28
21	targeting options are not offsite.	
22	Earlier when we were discussing	
23	behavioral targeting, I was referencing the broader	
24	personalization including ad delivery.	
25	Q. (By Ms. Weaver) Okay. Now, for the	02:03:43
		Page 207

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1	estimated action rate, what is the core set of	02:03:45
2	inputs and activities that help Facebook derive the	
3	estimated action rate?	
4	MR. BENJAMIN: Objection to form.	
5	THE DEPONENT: It is on-site behavior.	02:03:58
6	So, again, people's activity on Facebook and	
7	offsite based on our third our our business	
8	tools and information that's shared back with us.	
9	Q. (By Ms. Weaver) And then is an algorithm	
10	performing an analysis to predict the next possible	02:04:16
11	action a user might make?	
12	A. The estimated action rate is the	
13	likelihood that the user takes an action and it	
14	uses those the the machine learning	
15	classifiers use that activity as input.	02:04:34
16	Q. Okay. And for "Ad Quality" I know we	
17	covered this.	
18	But for the record and clarity, ad	
19	quality what is the core set of data that	
20	Facebook draws upon to determine ad quality?	02:04:48
21	MR. BENJAMIN: Objection to form.	
22	THE DEPONENT: It's the content of the	
23	ads. So what an assessment, for example, of click	
24	bait and our understanding of the the content of	
25	that ad, as well as users' feedback such as X outs,	02:05:03
		Page 208

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1		
1	which is reporting.	02:05:09
2	Q. (By Ms. Weaver) And the higher the ad	
3	quality, and the higher the estimated action rate,	
4	the better the total value for the advertising,	
5	right?	02:05:27
6	A. The higher the ad quality and the higher	
7	the estimated action rate, the higher the total	
8	value score will be.	
9	Q. And then do higher total value scores	
10	correlate with increased revenue to Facebook?	02:05:41
11	MR. BENJAMIN: Objection to form and	
12	scope.	
13	THE DEPONENT: I think to to make this	
14	very clear, the way we've built this total value	
15	score helps ensure that it's not just the highest	02:05:55
16	bidder that wins the action. Otherwise we would	
17	just say whoever is highest bidding gets the spot	
18	on the ad. By including estimated action rate and	
19	ad quality, we're actually taking into	
20	consideration people's preferences of what they	02:06:12
21	would want to see and the quality of that ad.	
22	And it actually means that the highest	
23	bidder is not always going to be the winner. So	
24	better ads that are more relevant are the ones that	
25	win and then an advertiser pays for.	02:06:27
		Page 209

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1	Q. (By Ms. Weaver) And when Facebook is	02:06:31
2	serving better ads, Facebook is more successful	
3	financially, right?	
4	MR. BENJAMIN: Objection to form. Asked	
5	and answered. Vague. And outside of scope.	02:06:39
6	THE DEPONENT: When we serve better ads,	
7	people's experience is better. And that is a	
8	common goal of ours across the board.	
9	Q. (By Ms. Weaver) Does Facebook's revenue	
10	increase when they make serve better ads?	02:06:55
11	MR. BENJAMIN: Same objections.	
12	THE DEPONENT: As compared to when we	
13	serve bad ads?	
14	Q. (By Ms. Weaver) Yes.	
15	A. I don't think we can yeah. I don't	02:07:07
16	know that that is a comparison we make because we	
17	strive to show good ads. So I don't have a	
18	comparison point there.	
19	Q. Do advertisers put advertising on	
20	Facebook if they feel like their advertisements are	02:07:19
21	not effective?	
22	MR. BENJAMIN: Objection to form. Calls	
23	for speculation. Outside of scope.	
24	THE DEPONENT: If an advertiser does not	
25	see performance on an ad, that they will use	02:07:35
		Page 210

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1	that information for how they then choose to spend	02:07:39
2	their money across platforms.	
3	Q. (By Ms. Weaver) Okay. So is it just	
4	one last question.	
5	The user activity, just for the record,	02:07:51
6	that Facebook uses to analyze and create the	
7	estimated action rate and the ad quality is not	
8	limited only to publicly shared activity, it	
9	includes private activity as well, correct?	
10	MR. BENJAMIN: Objection to form. Asked	02:08:11
11	and answered.	
12	THE DEPONENT: What I shared earlier is	
13	relevant here as well. We don't have a dichotomy	
14	of private and public activity. And so it's not	
15	limited in that manner because it's not the way our	02:08:24
16	product works.	
17	MS. WEAVER: Okay. Thank you.	
18	(Exhibit 659 was marked for	
19	identification by the court reporter and is	
20	attached hereto.)	02:08:28
21	MS. WEAVER: We're going to mark tab 4,	
22	Josh, if you don't mind.	
23	We'll mark as Exhibit 659 a document	
24	bearing Bates numbers -03526129 through -133.	
25	Q. (By Ms. Weaver) And while we're waiting	02:09:10
		Page 211

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1	for it to load, what is a keyword?	02:09:11
2	A. I'm I'm not sure what we're	
3	referencing.	
4	Q. Okay. Do you have you used the phrase	
5	"keywords" in the context of advertising at	02:09:22
6	Facebook?	
7	MR. BENJAMIN: Objection to form.	
8	THE DEPONENT: It is not a type of	
9	targeting we offer. It is how we describe what an	
10	advertiser inputs in a search to select the	02:09:38
11	matching interests.	
12	So as I described, an advertiser	
13	selects creates an ad, selects their their	
14	desired audience. And they could input something	
15	like Nike and see the interests that match that in	02:09:54
16	order to select that interest. That's effectively	
17	a search keyword.	
18	Q. (By Ms. Weaver) And does Facebook have	
19	limitations on what keywords advertisers can use?	
20	A. So, again, to be clear, it's not that	02:10:14
21	we're providing them keywords. The keyword is what	
22	an advertiser chooses to search. They can search	
23	against whatever they want. But we've had	
24	interests that we provide. And if their keyword	
25	matches, we'll render that interest.	02:10:29
		Page 212

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1	Q. Okay. I'm sorry.	02:10:30
2	The question I asked was, does Facebook	
3	limit what keywords advertisers can use?	
4	A. Do you mean	
5	MR. BENJAMIN: Objection to form.	02:10:39
6	Argumentative. Asked and answered.	
7	THE DEPONENT: Can you clarify what you	
8	mean	
9	Q. (By Ms. Weaver) I'm not saying Facebook	
10	is providing the keyword, right?	02:10:47
11	A. I understand.	
12	Q. Advertisers are using a keyword.	
13	Does Facebook say you can't use these	
14	kinds of keywords?	
15	A. Can you clarify what you mean by "use,"	02:10:56
16	for from the advertiser perspective?	
17	Q. You said a keyword can be used to search	
18	against whatever the advertiser is looking for,	
19	right?	
20	A. So an advertiser can input a word, a	02:11:11
21	keyword.	
22	Q. Right.	
23	A. We don't limit what they search for, but	
24	we limit what we will return to our interests. And	
25	we don't provide anything as an interest.	02:11:24
		Page 213

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1	So there is a limitation on what an	02:11:27
2	advertiser could use for targeting. They could	
3	choose to search any number of words, but those	
4	won't all have a matching interest that's actually	
5	used for targeting.	02:11:41
6	Q. Okay. I I think I understand the	
7	distinction you're making, but I'm not sure because	
8	it's one of two things.	
9	Can an advertiser search for a word, but	
10	then it just won't be used in the advertisement; is	02:11:55
11	that what you're saying, because I don't understand	
12	the difference?	
13	A. I'm saying the difference is we have	
14	the interests that we provide as part of the	
15	selection of the target or or the desired	02:12:12
16	audience. And in order for an advertiser to find	
17	which interests they want to use for targeting,	
18	they can input a search term.	
19	If that search term has no matches, then	
20	there won't be anything that's added as part of the	02:12:28
21	criteria for their targeting.	
22	If it has a match, they can then select	
23	from those matches to say I want if I type in	
24	shoes, as an advertiser, and there is an interest	
25	that matches that keyword search, then we'll show	02:12:42
		Page 214

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1	them shoes and they can select that interest in	02:12:45
2	order to to find their target audience.	
3	Q. Right.	
4	And so if the are there any	
5	limitations on the search terms that will actually	02:12:55
6	be employed by Facebook, other than it's not one of	
7	the interests?	
8	MR. BENJAMIN: Objection.	
9	THE DEPONENT: The only	
10	MR. BENJAMIN: Objection to form.	02:13:06
11	THE DEPONENT: The way we use those	
12	search terms is to render an interest for the	
13	advertiser to choose from. If it doesn't have a	
14	match, there's no other use for that keyword search	
15	term they've inputted.	02:13:22
16	Q. (By Ms. Weaver) Does Facebook have any	
17	restrictions on what search terms advertisers can	
18	use as	
19	MR. BENJAMIN: Objection.	
20	Q. (By Ms. Weaver) as a matter of	02:13:31
21	policy?	
22	MR. BENJAMIN: Objection to form. Asked	
23	and answered. Scope.	
24	THE DEPONENT: There isn't a limit for	
25	what an advertiser can type into the search box.	02:13:42
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It has to actually match in order to be used for	02:13:47
targeting, they have to select an interest from	
those search results.	
Q. (By Ms. Weaver) But you're not aware of,	
for example, certain words being blacklisted or	02:13:56
I hear the new phrases deny listed by Facebook	
for use in keyword searches?	
MR. BENJAMIN: Objection to form.	
THE DEPONENT: No.	
Q. (By Ms. Weaver) Okay. Well, let's take	02:14:16
a look at Exhibit 658 oh, no. Sorry 659.	
Apologies.	
A. I have it up.	
Q. And the first question is, have you seen	
this document before?	02:14:33
A. Yes. I saw it as part of prep for this	
deposition.	
Q. Okay. In the second sentence well,	
let's start, do you see where the first the	
email on top says, "Hi John, As a technical matter,	02:14:45
you can target based on specific keywords in a	
status update or group membership. However, our Ad	
Guidelines prohibit advertisers from 'imply[ing] by	
targetinga user's personal characteristics	
within the following categories," and then it lists	02:15:02
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	targeting, they have to select an interest from those search results.  Q. (By Ms. Weaver) But you're not aware of, for example, certain words being blacklisted or I hear the new phrases deny listed by Facebook for use in keyword searches?  MR. BENJAMIN: Objection to form.  THE DEPONENT: No.  Q. (By Ms. Weaver) Okay. Well, let's take a look at Exhibit 658 oh, no. Sorry 659.  Apologies.  A. I have it up.  Q. And the first question is, have you seen this document before?  A. Yes. I saw it as part of prep for this deposition.  Q. Okay. In the second sentence well, let's start, do you see where the first the email on top says, "Hi John, As a technical matter, you can target based on specific keywords in a status update or group membership. However, our Ad Guidelines prohibit advertisers from 'imply[ing] by targetinga user's personal characteristics

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1	"race or ethnic origin; religion or philosophical	02:15:04
2	belief; age; sexual orientation or sexual life;	
3	gender identity; disability or medical condition;	
4	financial status or information; membership in a	
5	trade union; and criminal record."	02:15:18
6	Do you see that?	
7	A. Yes.	
8	Q. And so is it true that Facebook prohibits	
9	advertisers from using the keywords relating to the	
10	topics described there?	02:15:30
11	A. This policy	
12	MR. BENJAMIN: Objection.	
13	THE DEPONENT: This policy prohibits	
14	advertisers this is one of our content	
15	policies and it disallows advertisers from	02:15:44
16	calling out any of these attributes in the content	
17	of their ad.	
18	Q. (By Ms. Weaver) And what why does	
19	Facebook have that policy?	
20	A. This policy exists because we understand	02:15:59
21	that people don't want their attributes called out	
22	in an ad.	
23	Q. And how long has this policy been in	
24	effect?	
25	A. Many years. This is like pre 2008	02:16:13
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1	policy.	02:16:16
2	Q. And among the attributes that users don't	
3	want called out in an ad is age and gender	
4	identity, right?	
5	A. Correct.	02:16:28
6	Q. Now, when we talked about core audiences,	
7	you said that for core audiences Facebook targets	
8	age and gender, right?	
9	A. Yes.	
10	Q. Why is there a distinction?	02:16:38
11	A. Again, this is about the ad content. An	
12	ad content cannot call out people's specific	
13	attributes.	
14	Q. What does how does core audience	
15	function?	02:16:54
16	A. It's not about the content	
17	MR. BENJAMIN: Object objection to	
18	form.	
19	THE DEPONENT: It's not about the content	
20	of an ad.	02:17:00
21	Q. (By Ms. Weaver) Meaning people are being	
22	targeted by their age or gender, but the content of	
23	the ad doesn't reveal it?	
24	A. We we don't allow content of the ad to	
25	call out these attributes. That is completely	02:17:13
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1	separate from the audience selection by the	02:17:18
2	advertiser.	
3	Q. So people can be targeted by their age or	
4	gender, but Facebook just doesn't want the ad	
5	itself to reveal to the user that they are being	02:17:31
6	targeted by their age or gender, among other	
7	things; is that right?	
8	MR. BENJAMIN: Objection to form.	
9	Argumentative. Mischaracterizes.	
10	THE DEPONENT: We provide transparency	02:17:45
11	into the targeting options so a user has "Why Am I	
12	Seeing This," and they would be able to understand	
13	the targeting options. So that's not the	
14	rationale. They still have that information. This	
15	is a content policy.	02:17:59
16	Q. (By Ms. Weaver) When people receive an	
17	ad, do they know in the moment that they receive it	
18	that they're being targeted because of their age or	
19	gender, especially if the ad hides that fact by not	
20	referencing it?	02:18:18
21	MR. BENJAMIN: Objection to form.	
22	THE DEPONENT: I think that assumes that	
23	all ads would reference it. But the the user	
24	would see an ad, they know that ads are sponsored	
25	content and involve targeting. They also have the	02:18:30
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1	tool to see those specific parameters.	02:18:33
2	Q. (By Ms. Weaver) Okay. Let me ask this,	
3	why is it that Facebook concluded that people don't	
4	want to see ads that, on their face, target them by	
5	"race or ethnic origin; religion or philosophical	02:18:50
6	belief; age; sexual orientation or sexual life;	
7	gender identity; disability or medical condition	
8	(including physical or mental health); financial	
9	status or information; membership in a trade union;	
10	and criminal record"?	02:19:06
11	MR. BENJAMIN: Objection to form and	
12	scope.	
13	THE DEPONENT: We understood that people	
14	did not like those ads, and we made it a policy to	
15	not allow that the content to call out people's	02:19:17
16	attributes.	
17	Q. (By Ms. Weaver) How did Facebook decide	
18	that people do not like the ads that focus on the	
19	attributes that I just described?	
20	MR. BENJAMIN: Objection to form. Scope.	02:19:31
21	THE DEPONENT: In the content this is	
22	from my personal experience, because it not	
23	related to ad targeting. We understand from my	
24	the way I've understood this policy, we measure	
25	X outs, et cetera. And so we know which ads have	02:19:50
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1	an X out, and this is an example of where that can	02:19:53
2	inform our policies.	
3	Q. (By Ms. Weaver) For the record, what do	
4	you mean by "X out"?	
5	A. Oh, apologies. Reports.	02:20:01
6	Q. I'm sorry. What's that	
7	A. When when someone sees an ad, they	
8	have the ability to say, "I don't want to see this	
9	ad." That is one way that we understand ads that	
10	people do and don't want to see as and from my	02:20:14
11	understanding, that's how we develop policies like	
12	this.	
13	Q. And for this policy, which you said was	
14	developed in pre 2008, what was the information	
15	that Facebook relied on in determining that people	02:20:28
16	don't want to see ads that, in their content,	
17	target them for these characteristics?	
18	A. I'm not an expert in our ad content	
19	policies and their early development. That's	
20	outside of ad targeting. The but, in general,	02:20:47
21	we use feedback signals. X outs is an example of	
22	that.	
23	Q. So, in fact, Facebook may target users	
24	because of "race or ethnic origin; religion or	
25	philosophical belief; age; sexual orientation or	02:21:05
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1	sexual life; gender identity; disability or medical	02:21:08
2	condition (including or physical or mental health);	
3	financial status or information; membership in a	
4	trade union; and criminal record," but Facebook's	
5	policy is just not to make it apparent in the	02:21:22
6	content of the ad; is that fair?	
7	MR. BENJAMIN: Objection. Argumentative.	
8	Misstates. Asked and answered. Outside the scope.	
9	THE DEPONENT: No, that's not accurate.	
10	We don't provide targeting options based on this	02:21:39
11	data on many a lot of the data you read out.	
12	And this is specifically a content policy. It is	
13	distinct from the targeting options we provide.	
14	Q. (By Ms. Weaver) Facebook does target	
15	people based on age and gender, correct?	02:21:55
16	A. Correct. The rest of the list, no.	
17	Q. Does Facebook draw inferences about	
18	users' financial status or information to determine	
19	what action they might next take?	
20	A. No.	02:22:12
21	MR. BENJAMIN: Objection objection to	
22	form.	
23	Q. (By Ms. Weaver) Does Facebook use any of	
24	the categories identified in Exhibit 659 in its	
25	analyses about estimated actions?	02:22:21
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_ [	n m1	00.00.01
1	A. These categories we don't have all of	02:22:31
2	these categories. Like we do not collect race or	
3	ethnic origin. We don't collect disability or	
4	medical condition, financial status, trade union	
5	membership and criminal record.	02:22:44
6	And we don't create inferences about	
7	these any of these to determine the attribute or	
8	predict someone's attribute.	
9	Q. Is it your testimony, on behalf of	
10	Facebook, that at no point in time did Facebook	02:22:59
11	infer ethnic origin or race about users?	
12	A. Yes, we did not infer people's	
13	characteristic, their ethnic or racial origin. And	
14	maybe I should I was no, we did not. I was	
15	saying "yes" to your question to clarify.	02:23:21
16	Q. Do you see a reference here to the	
17	minimum cluster size in this document under	
18	there there's a box here that says "Redacted -	
19	Privileged."	
20	A. Yes, I see the reference.	02:23:41
21	Q. What is "minimum cluster size"?	
22	A. This is similar to what we discussed	
23	about the minimum audience size we will allow for	
24	an ad to run or we require.	
25	Q. Sorry.	02:23:55
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1	What's the difference between minimum	02:23:55
2	cluster size and minimum audience size?	
3	A. I understand those to be the same.	
4	Q. Okay. So a little bit lower on this	
5	page, the last full paragraph, do you see where	02:24:17
6	John Patten wrote to Rob Sherman, "So under the	
7	idea that if you provide info on FB even if it is	
8	medically sensitive, it is ad targetable."	
9	Do you see that?	
10	A. I see it.	02:24:35
11	Q. And you disagree with that statement?	
12	A. Yes.	
13	Q. So what does Facebook do to prevent	
14	information that is medically sensitive being used	
15	to create inferences about users?	02:24:49
16	MR. BENJAMIN: Objection. Form.	
17	THE DEPONENT: We don't collect medical	
18	information, and we also separately do not infer	
19	someone's medical condition.	
20	Q. (By Ms. Weaver) When you say you don't	02:25:10
21	collect it, what do you mean?	
22	A. I mean that there isn't like a place	
23	where someone says similar as an example, to	
24	reference gender, we have part of profile is	
25	gender or age and someone provides that, there is	02:25:25
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1	not a similar medical condition field that people	02:25:29
2	fill out or provide.	
3	Q. Right.	
4	But if there are conditions, for example,	
5	that you know, asthma, or something like that,	02:25:40
6	does does Facebook infer things about users	
7	based on that information?	
8	MR. BENJAMIN: Objection.	
9	THE DEPONENT: We don't we don't have	
10	that information.	02:25:55
11	Q. (By Ms. Weaver) What if I click on a	
12	page for a medical provider, what does Facebook do	
13	with that information?	
14	MR. BENJAMIN: Objection	
15	THE DEPONENT: We	02:26:05
16	MR. BENJAMIN: to form.	
17	THE DEPONENT: We would know you clicked	
18	on a page from a medical provider. We're not	
19	making an inference about your medical condition.	
20	Q. (By Ms. Weaver) And what does Facebook	02:26:15
21	do with the information that I clicked on a page	
22	for a medical provider?	
23	MR. BENJAMIN: Objection to form and	
24	scope.	
25	THE DEPONENT: Within the context of ads,	02:26:27
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as we've discussed, page engagement can can	02:26:29
inform the future ads people see.	
Q. (By Ms. Weaver) And what if my friend	
posts something about a cancer survivor group and I	
like it, does that activity, which would otherwise	02:26:50
be included in behaviors, inform what behaviors I	
might be included in?	
MR. BENJAMIN: Objection to form.	
THE DEPONENT: We don't have a behavior	
targeting option that is about like cancer,	02:27:19
friends of cancer survivors. That's not a	
targeting option.	
Q. (By Ms. Weaver) Does Facebook use that	
information in determining my estimated actions?	
A. We don't use the content of your friend's	02:27:45
post. That's not something we use currently.	
Q. Did Facebook use the contents of my	
friend's posts at any point in time from 2007 to	
the present?	
A. No.	02:28:03
Q. So why did you say "currently"?	
MR. BENJAMIN: Objection. Form.	
Argumentative.	
THE DEPONENT: I was I was just	
honestly repeating the tense of the question. It	02:28:15
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	inform the future ads people see.  Q. (By Ms. Weaver) And what if my friend posts something about a cancer survivor group and I like it, does that activity, which would otherwise be included in behaviors, inform what behaviors I might be included in?  MR. BENJAMIN: Objection to form.  THE DEPONENT: We don't have a behavior targeting option that is about like cancer, friends of cancer survivors. That's not a targeting option.  Q. (By Ms. Weaver) Does Facebook use that information in determining my estimated actions?  A. We don't use the content of your friend's post. That's not something we use currently.  Q. Did Facebook use the contents of my friend's posts at any point in time from 2007 to the present?  A. No.  Q. So why did you say "currently"?  MR. BENJAMIN: Objection. Form.  Argumentative.  THE DEPONENT: I was I was just

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1	wasn't meant to be an exclusion.	02:28:18
2	Q. (By Ms. Weaver) Do you understand how	
3	the algorithms work and what inputs they use to	
4	create estimated actions?	
5	MR. BENJAMIN: Objection to form.	02:28:39
6	Compound. Vague.	
7	THE DEPONENT: I understand the machine	
8	learning that that is how we generate the	
9	estimated action rate and the inputs that they use.	
10	Q. (By Ms. Weaver) And what are the inputs	02:28:54
11	for the machine learning that you just mentioned?	
12	A. On-site activity and offsite activity	
13	through our business tools.	
14	Q. And specifically what on-site activity?	
15	MR. BENJAMIN: Objection to form. Asked	02:29:09
16	and answered.	
17	THE DEPONENT: The ad engagement, page	
18	engagement, people's activity. The info they	
19	provide to us. Those are all parts of that	
20	estimated action rate.	02:29:18
21	Q. (By Ms. Weaver) Does it consider what	
22	actions I take with regard to content my friends	
23	post?	
24	A. No.	
25	Q. Does it consider the contents of what I	02:29:43
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1	post?	02:29:45
2	A. No.	
3	Q. Okay. I'm going to return to a topic	we
4	began a while ago on page 3 of Exhibit 656.	
5	We were discussing "Facebook's policie	es 02:30:21
6	restricting advertisers' use of advertising-rela	ited
7	data (i.e. limiting it to its 'use case')."	
8	Do you recall that?	
9	A. I'm sorry. On 656?	
10	Q. I'm sorry. Let me make sure I have th	ne 02:30:36
11	right 657.	
12	I'm I'm sorry. That's my fault.	
13	A. Yes, I have it up.	
14	Q. So do you recall the bullet point on	
15	page 3 that we began discussing but did not	02:30:47
16	complete?	
17	A. Yes.	
18	Sorry. I'm trying to find the exact	
19	wording on here.	
20	Q. No problem.	02:30:56
21	A. Yes.	
22	Q. So what does what are Facebook's	
23	policies restricting advertisers' use of	
24	advertising-related data?	
25	A. There are a few relevant policies. As	an 02:31:18
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1	example, our customer list policies limits the way	02:31:21
2	people can use that information. Our business	
3	tools do as well.	
4	And we also require do not allow	
5	advertisers to use information that they understand	02:31:34
6	from the ad for purposes other than understanding	
7	the performance of their ad.	
8	Q. What policies in particular are you	
9	referring to?	
10	MR. BENJAMIN: Objection.	02:31:50
11	THE DEPONENT: I don't I I can look	
12	up the exact like policy number, the do you mean	
13	like in those terms which number?	
14	Q. (By Ms. Weaver) Just descriptively, what	
15	policies are you referring to?	02:32:02
16	A. All of those terms have policies that	
17	restrict how an advertiser and the requirements	
18	for that data and disallow an advertiser from	
19	taking specific actions with it.	
20	So as an example, our policy our ad	02:32:19
21	guidelines, ad policies disallow an advertiser from	
22	using ad targeting to harass or provoke people. It	
23	also disallows advertisers from taking information	
24	to for purposes other than understanding the	
25	performance of their ad.	02:32:38
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1	Q. Okay. What we're talking about here are	02:32:40
2	the advertising of using advertising-related	
3	data beyond a use case, right?	
4	A. Yes.	
5	Q. What is a use case?	02:32:52
6	A. To place the ad	
7	Q. You're saying	
8	A in this context.	
9	Q for advertisers, the use case should	
10	be limited solely to placing an ad; is that right?	02:33:02
11	A. Placing the ad and the the performance	
12	of that ad.	
13	Q. And what does advertising-related data	
14	mean in this context?	
15	A. Related to ad targeting and ad delivery,	02:33:23
16	it means the way an advertiser sets up their	
17	their ad and the performance of that ad.	
18	Q. Does that exclude information about who	
19	receives the ad and the engagement or action rate?	
20	MR. BENJAMIN: Objection to form.	02:33:52
21	THE DEPONENT: Let me know if this	
22	answers your question.	
23	We we don't provide advertisers	
24	with who has seen their ad at an individual user	
25	level. That's not something we give them.	02:34:03
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1	They understand they are provided	02:34:05
2	performance metrics that are aggregated, and those	
3	are for the purpose of understanding the	
4	performance of that ad. That's the use case.	
5	Q. (By Ms. Weaver) So at some point in	02:34:17
6	time, when the audience minimum audience number	
7	was 20, an advertiser could identify 20 people from	
8	its customer list, run an ad, and then Facebook	
9	would provide aggregated meaning aggregated for	
10	those 20 people how many people took action, for	02:34:36
11	example; is that right?	
12	MR. BENJAMIN: Objection to form. Calls	
13	for speculation.	
14	THE DEPONENT: An advertiser could create	
15	a custom customer list. It would have to have at	02:34:49
16	least 20 matches in order for it to be used in an	
17	ad. They could then run that ad. And we would	
18	show the reporting metrics related to that ad,	
19	again, in an aggregated form.	
20	Q. (By Ms. Weaver) And what are the	02:35:05
21	reporting metrics that Facebook would provide for	
22	that ad?	
23	A. These were the metrics categories that	
24	that I covered earlier of impressions so number	
25	of impressions. Number of clicks. Ad spend.	02:35:17
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1	Ad score.	02:35:21
2	Q. And for these 20 people, how many	
3	categories of interests could an advertiser seek?	
4	MR. BENJAMIN: Objection to form.	
5	Misstates.	02:35:38
6	THE DEPONENT: Can you clarify what you	
7	mean by an advertiser could seek interests?	
8	Q. (By Ms. Weaver) Sure.	
9	So I'm here's my audience of 20, and I	
10	want to identify the following 10 categories of	02:35:47
11	interests.	
12	Was there a cap on the number of	
13	interests or behaviors that an advertiser could	
14	identify to target the 20 people?	
15	A. An advertiser can use a customer list and	02:36:07
16	they can use additional targeting options with that	
17	list. But an ad cannot add audience, cannot be	
18	narrowed be below the threshold in order for us	
19	to deliver it.	
20	Q. I'm not talking about the audience now.	02:36:22
21	I'm talking about the characteristics that are	
22	being focused on, right, the interests or the	
23	behaviors.	
24	Was there a cap on the behaviors that	
25	could be used to target the audience?	02:36:33
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1	A. There is not a cap in the number of	02:36:37
2	behaviors someone can choose. But if choosing	
3	those behaviors drops the audience below a certain	
4	level, we will not deliver that ad.	
5	Q. And what is the level below which it may	02:36:49
6	not drop?	
7	A. It is 100 people.	
8	Q. And why is the limit 100 people?	
9	A. When we've done assessments of across	
10	our system to ensure that people aren't able to	02:37:11
11	reidentify, that was one of the that was a	
12	threshold that we felt comfortable with as a	
13	prevention.	
14	Q. When was the 100 people threshold	
15	established?	02:37:24
16	A. I believe it was 2018. And before that	
17	there was a threshold. It was lower, but there's	
18	always been a threshold.	
19	Q. What was the lowest threshold that has	
20	existed?	02:37:39
21	MR. BENJAMIN: Objection to form.	
22	THE DEPONENT: 20, I believe.	
23	Q. (By Ms. Weaver) And when for what	
24	years was the 20 threshold operative?	
25	A. I believe up until between 2016 and 2018.	02:38:12
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1	I'm not sure if we went straight to 100 or or in	02:38:17
2	between.	
3	Q. And when the threshold was 20, could	
4	advertisers use geo location as a target?	
5	A. Advertisers can use location targeting.	02:38:41
6	If the ad audience, after any targeting selection,	
7	drops below the threshold of 100, it would then not	
8	deliver. We won't deliver that ad.	
9	Q. That's the current policy, correct?	
10	A. And yes.	02:39:06
11	Q. But if the threshold was 20, could an	
12	advertiser use location targeting?	
13	A. Yes. Again, they can select location.	
14	And if it ever drops below 20, that ad would not	
15	deliver.	02:39:21
16	Q. And when the threshold was 20, an	
17	advertiser could use geo location in combination	
18	with an unlimited number of interests or behaviors	
19	if they were within Facebook's roster of them,	
20	correct?	02:39:39
21	MR. BENJAMIN: Objection to form.	
22	THE DEPONENT: They can use any number to	
23	set up their targeting audience. If it ever drops	
24	below the threshold, it will not deliver,	
25	regardless of how many options they've selected.	02:39:50
		Page 234

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1	Q. (By Ms. Weaver) So to be clear, until	02:39:55
2	2016 or 2018, when the threshold was raised to 100,	
3	an advertiser could identify its audience of up to	
4	20. It could identify geo location. Then it could	
5	identify interests or behaviors, and as many as	02:40:13
6	possible, but no restriction.	
7	And then Facebook would run and return	
8	would run the ad and return metrics to the	
9	advertiser, assuming they did not go below the	
10	threshold, and provide information about	02:40:31
11	engagement, views, clicks, et cetera, right?	
12	A. Can we clarify	
13	MR. BENJAMIN: Objection objection to	
14	form.	
15	THE DEPONENT: At the top there when you	02:40:42
16	were reading through or or top of your	
17	question, identify I think the first part was	
18	you said identify 20.	
19	What what did you mean there?	
20	Q. (By Ms. Weaver) So let's assume the	02:40:55
21	in this first scenario, it's a user list.	
22	A. So a custom audience.	
23	Q. Yes.	
24	A. A customer list. I see.	
25	So an advertiser could upload a customer	02:41:04
		Page 235

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1	list, and they could use the other targeting	02:41:07
2	options to create their ad desired audience for	
3	their ad. If it did not drop below the threshold,	
4	we would deliver that ad. And we would provide	
5	performance metrics, but those performance metrics	02:41:20
6	do not include who saw the ad. Regardless of how	
7	big the audience is or isn't, we don't provide who	
8	saw the ad to an advertiser.	
9	Q. And in addition to user list, there were	
10	two other kinds of audiences, right?	02:41:38
11	A. Within	
12	MR. BENJAMIN: Objection. Form.	
13	Q. (By Ms. Weaver) There's the website app	
14	custom audience and there's also engagement custom	
15	audience, right?	02:41:51
16	A. Those are two other types of custom	
17	audience, yes.	
18	Q. And so the same would apply for those	
19	kinds of audience as well. The 20 cap, maybe 100	
20	cap for now. Unlimited interests and behaviors can	02:42:01
21	be targeted including geo location, right?	
22	A. Those don't have the same upload	
23	functionality as a customer list. But they also	
24	had an audience minimum. And to be clear, the	
25	audience minimum is of the total targeting option	02:42:16
		Page 236

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1	selected.	02:42:20
2	So it could be website custom audience	
3	with a number of interests or with no interests.	
4	In either scenario, there is it has to be above	
5	a minimum threshold in order to run the ad.	02:42:31
6	Q. What's the minimum threshold?	
7	A. 100.	
8	Q. And it used to be 20?	
9	A. Yes.	
10	Q. Until 2016 or 2018?	02:42:43
11	A. Correct.	
12	Q. You said they don't have the same upload	
13	functionality.	
14	What do you mean?	
15	A. I meant for customer list, the advertiser	02:42:55
16	is uploading a list of their existing customers.	
17	That's distinct from engagement custom audience or	
18	a website custom audience. They don't they're	
19	not based on a customer list that the advertiser	
20	provides.	02:43:10
21	Q. Is a Facebook user ID a unique	
22	identifier?	
23	MR. BENJAMIN: Objection to form.	
24	THE DEPONENT: Yes, every user has their	
25	own unique UID.	02:43:33
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1	Q. (By Ms. Weaver) And Facebook doesn't	02:43:35
2	provide Facebook user IDs in this process of	
3	targeted advertising through custom audiences,	
4	right?	
5	A. We do not provide UIDs to advertisers.	02:43:45
6	Q. Does Facebook take any steps to ensure	
7	that the advertiser who are identifying their	
8	target audiences do not possess Facebook user IDs?	
9	A. Let me know if this gets at what your	
10	question is asking.	02:44:05
11	When an advertiser uploads a customer	
12	list, we hash their information so we don't	
13	actually know exactly what their the the	
14	identifier. We're not learning anything through	
15	that upload. And after we match it to users, we	02:44:15
16	don't provide anything back to the advertiser about	
17	those users, including and definitely not their	
18	user ID.	
19	Q. Facebook is aware that data brokers	
20	already have Facebook user IDs, right?	02:44:33
21	MR. BENJAMIN: Objection to form and	
22	scope.	
23	THE DEPONENT: I can't speak to that.	
24	I'm not aware.	
25	Q. (By Ms. Weaver) So the	02:44:42
		Page 238

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1	A. In my personally capacity, I don't know.	02:44:42
2	Q. So the representation here is that	
3	Facebook is not providing any personally	
4	identifiable information through the targeted	
5	advertising process, right?	02:44:52
6	MR. BENJAMIN: Objection to form. Vague.	
7	THE DEPONENT: We don't provide	
8	advertisers information about the users who or	
9	who saw their ad and how to identify those users.	
10	Q. (By Ms. Weaver) Okay. Well, let's go	02:45:06
11	back to Exhibit 658 and turn to page 5. And I'll	
12	read into the record at Bates number -903.	
13	"We don't share information with	
14	advertisers that personally identifies individuals	
15	unless they've given us permission."	02:45:28
16	Do you see that?	
17	A. Yes.	
18	Q. And and that's a core promise that	
19	Facebook has made to users from 2007 to the	
20	present, right?	02:45:39
21	A. Correct.	
22	Q. And what does it mean in your	
23	understanding to personally identify an individual?	
24	A. To tell an advertiser who saw their ad.	
25	Q. So to you, it just would be saying	02:45:55
		Page 239

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1	Lesley Weaver saw this ad, and that would be	02:45:57
2	compliant with this policy?	
3	MR. BENJAMIN: Objection to form.	
4	THE DEPONENT: I'm sorry. I don't follow	
5	what you mean.	02:46:05
6	Q. (By Ms. Weaver) You're saying it to	
7	tell an advertiser who saw their ad would be	
8	providing personally identifiable information,	
9	right?	
10	A. Yes. And we do not do that.	02:46:20
11	Q. And what do you mean when you say to tell	
12	a user who saw an ad I'm sorry.	
13	What do you mean by "To tell an	
14	advertiser who saw their ad"?	
15	A. We don't tell them individual user level	02:46:33
16	information about who saw their about the users	
17	who saw their ad.	
18	Q. But when the limit was 20 people, you	
19	would tell them that 20 people saw their ad, and	
20	they would have already targeted certain data	02:46:52
21	points like geo location and other attributes,	
22	correct?	
23	MR. BENJAMIN: Objection to form.	
24	Misstates.	
25	THE DEPONENT: After they've created	02:47:06
		Page 240

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1	their audience, they would know how many people saw	02:47:07
2	their ad. But that would have to be, again, in	
3	order to deliver that audience, it had to be above	
4	the threshold.	
5	Q. (By Ms. Weaver) Which was 20 people for	02:47:21
6	most of the class period, right?	
7	MR. BENJAMIN: Objection to form.	
8	THE DEPONENT: Through the years, yes,	
9	until 2016 or 2018.	
10	Q. (By Ms. Weaver) So a separate question I	02:47:34
11	was asking is, is Facebook aware that, in fact,	
12	many third parties have data that associates users'	
13	Facebook IDs with individuals?	
14	MR. BENJAMIN: Objection to form and	
15	scope.	02:47:54
16	THE DEPONENT: I don't know about whether	
17	third parties have UIDs.	
18	Q. (By Ms. Weaver) Is that a concern of the	
19	Facebook targeted advertising policy team?	
20	MR. BENJAMIN: Objection to form and	02:48:08
21	scope.	
22	THE DEPONENT: We don't provide UIDs	
23	through our ad system and do we do we don't	
24	provide it purposefully, so that it's not available	
25	to an advertiser. That's what this statement	02:48:21
		Page 241

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1	indicates.	02:48:25
2	So it would yes, but it's not	
3	something we do. And we purposely don't do it.	
4	Q. (By Ms. Weaver) And why is that?	
5	A. If we provided a UID, they would be able	02:48:38
6	to tie that back to an individual. And we	
7	specifically state that we don't give information	
8	to advertisers about who saw the ad specifically	
9	about the individual who saw the ad.	
10	Q. What steps did Facebook take to ensure	02:48:58
11	that third parties who were conducting targeting	
12	advertising in groups of 20 did not possess	
13	Facebook user IDs or a way to reidentify users?	
14	MR. BENJAMIN: Objection to form.	
15	THE DEPONENT: I think we have to	02:49:22
16	differentiate and I'm I might be missing the	
17	link here, the possessing UIDs.	
18	Within our ad system, we don't provide	
19	UIDs. An advertiser has to meet a minimum	
20	threshold in order to run the ad. And the metrics	02:49:37
21	we provide them, performance metrics are	
22	aggregated.	
23	So we don't tell them information about	
24	who saw the ad specifically. And so there wouldn't	
25	be something to relate back to a UID, whether they	02:49:48
		Page 242

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1	possess it or not. And they wouldn't gain access	02:49:52
2	to the UID through our ad delivery.	
3	Q. (By Ms. Weaver) I understand you're	
4	saying that Facebook did not directly provide	
5	Facebook users IDs.	02:50:01
6	Wasn't Facebook aware that during the	
7	class period, at multiple points, third parties who	
8	advertised on Facebook had obtained Facebook user	
9	IDs?	
10	MR. BENJAMIN: Objection to form. Asked	02:50:16
11	and answered. Foundation.	
12	THE DEPONENT: I'm just not sure what	
13	the one, I don't know the scenarios we're	
14	talking about. They're outside of the ads my	
15	expertise on ads.	02:50:32
16	And I'm not certain the significance of	
17	how the UID plays into what we provide from ads,	
18	where it is has to a meet a minimum threshold,	
19	and we only provide aggregated performance metrics.	
20	Q. (By Ms. Weaver) So as you sit here	02:50:54
21	today, you're not aware that anybody outside of	
22	Facebook scraped or obtained Facebook user IDs; is	
23	that true?	
24	MR. BENJAMIN: Objection to form.	
25	THE DEPONENT: I am not an expert on all	02:51:09
		Page 243

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1	of the scraping or nonscraping that's occurred at	02:51:11
2	Facebook. That's	
3	Q. (By Ms. Weaver) I didn't I didn't ask	
4	that, whether you were an expert.	
5	I asked whether you are aware, under	02:51:18
6	oath, as you sit here today, that third parties had	
7	scraped Facebook user IDs off the platform and	
8	possessed them?	
9	MR. BENJAMIN: Objection to form and	
10	scope.	02:51:32
11	THE DEPONENT: I could not identify from	
12	my personal capacity examples of what you're	
13	talking about in any form of that I could speak	
14	to or or am aware of.	
15	Q. (By Ms. Weaver) As you sit here today,	02:51:50
16	you are saying you are unaware that users scraped	
17	Facebook user IDs off the platform?	
18	You're under oath.	
19	MR. BENJAMIN: Objection to form.	
20	Argumentative. Asked and answered. Beyond the	02:51:58
21	scope.	
22	THE DEPONENT: I'm truly I am not able	
23	to speak to, and I don't know scenarios of user ID	
24	scraping.	
25	Q. (By Ms. Weaver) And you are part of the	02:52:16
		Page 244

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1	privacy policy team for advertising, right?	02:52:17
2	A. Yes.	
3	Q. How many people are on that team?	
4	A. For advertising, specifically?	
5	Q. Yes.	02:52:30
6	A. There I believe there are currently	
7	ten of us.	
8	Q. And who's the lead on that team?	
9	A. Andrew Howard.	
10	Q. And to whom do you report?	02:52:46
11	A. Andrew Howard.	
12	Q. And you're not aware of any instances of	
13	third parties obtaining Facebook user IDs; is that	
14	right?	
15	MR. BENJAMIN: Objection to form. Asked	02:53:00
16	and answered. And to scope.	
17	THE DEPONENT: I I do not cover	
18	scraping. It is and I don't know of instances	
19	that I could speak to here or in really any	
20	capacity about whether this whether there has	02:53:14
21	been scraping of UIDs.	
22	Q. (By Ms. Weaver) Is there anyone on the	
23	policy team for advertising who is in charge of	
24	ensuring that advertising is not permitted by users	
25	who are in the possession of Facebook user IDs?	02:53:31
		Page 245

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1	A. Again, I'm I'm missing the connection	02:53:38
2	here between the possession of UIDs and whether	
3	someone advertises.	
4	Q. Okay. Let's say Amazon has enough data	
5	and information to be able to engineer or comes	02:53:52
6	into the possession of Facebook user IDs. And	
7	Amazon runs campaigns, millions of them, with the	
8	bare minimum, 20 or 100 people, to learn	
9	information about users.	
10	Does Facebook have any enforcement	02:54:10
11	mechanism to prevent advertisers, who Facebook	
12	knows or has reason to believe has Facebook user	
13	IDs, from running that kind of campaign?	
14	MR. BENJAMIN: Yeah. Objection to form	
15	and scope.	02:54:26
16	THE DEPONENT: Our protections are that	
17	we don't provide information to the advertiser when	
18	they on the performance of their ad, or who has	
19	seen their ad, for it to be identifiable back to a	
20	user ID.	02:54:46
21	Q. (By Ms. Weaver) Is that the only	
22	protection, that Facebook itself does not provide	
23	it?	
24	A. In addition to the protections of our	
25	audience minimum sizes and our policies in terms	02:55:01
		Page 246

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1	that disallow different use.	02:55:05
2	Q. Yes.	
3	The only protection that Facebook engages	
4	in to ensure that third parties who are conducting	
5	targeted advertising with the minimum threshold for	02:55:16
6	which for much of the period was 20 people, was	
7	that Facebook itself did not provide the Facebook	
8	user ID to the advertiser, correct?	
9	A. No.	
10	MR. BENJAMIN: Objection yeah,	02:55:30
11	objection to form. Misstates.	
12	THE DEPONENT: No. Our audience minimums	
13	are a form of protection. Our aggregated metrics	
14	are a form of protection. Our policies and our	
15	the terms that advertisers have to agree with are a	02:55:43
16	form of protection.	
17	And, again, this is not where I'm an	
18	expert in. But the efforts we go also on the	
19	scraping front and protection there, are additional	
20	areas that we ensure this doesn't happen.	02:55:56
21	Q. (By Ms. Weaver) So the efforts to	
22	prevent future scraping doesn't address paths	
23	scraping, right?	
24	MR. BENJAMIN: Objection to form and	
25	scope.	02:56:09
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1	THE DEPONENT: If someone has a UID,	02:56:15
2	our pre preventing future scraping does not	
3	remove that UID from them.	
4	Q. (By Ms. Weaver) And when you talk about	
5	the terms, you mean the third parties promise that	02:56:23
6	they will not well, I don't know what you mean.	
7	In terms of the terms, what do you mean	
8	in terms of providing protection to users whose	
9	Facebook IDs have been taken by advertiser who	
10	Facebook then allows to advertise on their platform	02:56:40
11	in groups as small as 20, for the majority of the	
12	class period?	
13	MR. BENJAMIN: Objection to form.	
14	THE DEPONENT: I I think I have to	
15	clarify a question here.	02:56:53
16	Is there an assumption that the UID is	
17	specifically being used for the audience?	
18	Q. (By Ms. Weaver) I I don't think	
19	there's an assumption there.	
20	A. Again, we have the audience size minimums	02:57:18
21	and we provide only aggregated metrics. And this	
22	helps ensure that we do not provide identifiable	
23	information about who sees an ad to the advertiser,	
24	regardless of any other information they have.	
25	Q. You referenced terms as also another	02:57:33
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1	mechanism to prevent reidentification of users,	02:57:37
2	correct?	
3	A. Yes.	
4	Q. What terms are you referring to?	
5	A. Our customer list policies and our	02:57:45
6	advertising terms or advertising guidelines.	
7	Q. Are those those enforcement mechanisms	
8	or are they just agreements?	
9	A. Those are agreements. Those set those	
10	are the policies for for running ads on our	02:58:06
11	platform.	
12	Q. Are you aware, as a member of the	
13	advertising policy team of ten people, of Facebook	
14	telling advertisers that they may not advertise on	
15	Facebook because they have violated the terms that	02:58:21
16	you're referring to because they possess Facebook	
17	user IDs?	
18	MR. BENJAMIN: Objection to form.	
19	THE DEPONENT: I'm not aware of an	
20	advertiser breaking the policy here and in	02:58:37
21	Q. (By Ms. Weaver) Are you aware of any	
22	enforcement actions taken by Facebook to determine	
23	if that had happened?	
24	MR. BENJAMIN: Objection. Asked and	
25	answered.	02:58:56
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1	THE DEPONENT: I'm not aware of of us	02:59:00
2	being of of there being a case where this	
3	like where an advertiser did this that we enforced	
4	on, or that we had to enforce on. We I I am	
5	not aware of cases where there's been a violation.	02:59:15
6	Q. (By Ms. Weaver) What steps has Facebook	
7	taken to prevent reidentification of users targeted	
8	in advertising?	
9	MR. BENJAMIN: Objection to form. Asked	
10	and answered.	02:59:36
11	THE DEPONENT: We require an audience	
12	minimum. We only provide aggregated metrics to	
13	identifiers, and we don't tell them who	
14	specifically saw their ad.	
15	Q. (By Ms. Weaver) And is that the entirety	02:59:49
16	of the steps that Facebook has taken to prevent	
17	reidentification of users targeted in Facebook's	
18	advertising?	
19	A. Those are the foundation of how our	
20	system is built to prevent exactly that.	03:00:03
21	Q. Are there any other steps that Facebook	
22	has taken to prevent reidentification of users	
23	targeted in Facebook's advertising?	
24	A. We've built our system specifically to	
25	prevent it. I'm not aware of other steps we've had	03:00:19
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1	to take.	03:00:23
2	MS. WEAVER: Okay. Thank you.	
3	How long have we been going?	
4	THE VIDEOGRAPHER: Okay. Let me look	
5	that number	03:00:35
6	MS. WEAVER: Let's go off the record.	
7	THE VIDEOGRAPHER: Okay. Thanks.	
8	We're off the record. It's 3:00 o'clock	
9	p.m.	
10	(Recess taken.)	03:00:42
11	THE VIDEOGRAPHER: Okay. We're back on	
12	the record. It's 3:16 p.m.	
13	Q. (By Ms. Weaver) Ms. Leone, I'd like to	
14	direct your attention to what is being marked right	
15	now as Exhibit uh-oh. 670?	03:16:56
16	THE COURT REPORTER: 660.	
17	MS. WEAVER: 660.	
18	(Exhibit 660 was marked for	
19	identification by the court reporter and is	
20	attached hereto.)	03:17:25
21	MS. WEAVER: And for the record,	
22	Exhibit 660 bears Bates numbers FB-CA-MDL-03969858	
23	through -862.	
24	THE DEPONENT: I have it up.	
25	Q. (By Ms. Weaver) Great.	03:17:43
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1		And what is Exhibit 670 [sic]?	03:17:43
2		MR. BENJAMIN: 660.	
3		MS. WEAVER: Sorry.	
4		THE DEPONENT: Exhibit 660 is a help	
5	center ar	ticle published that we put in our help	03:17:58
6	center for	r advertisers called "Use Detailed	
7	Targeting	. "	
8	Q.	(By Ms. Weaver) And it's true and	
9	accurate,	right?	
10	Α.	I'm going to read through it. One sec.	03:18:14
11	Q.	Okay.	
12	А.	Yes, I read through it. And, yes, it's	
13	accurate.		
14	Q.	Okay. And this document is a current	
15	document,	is that right, as of June 7th, 2022?	03:18:49
16	Α.	Sorry.	
17		Do you mean that this is currently in our	
18	help cente	er?	
19	Q.	Yes.	
20	Α.	I believe so, yes. Yes.	03:19:04
21	Q.	Okay. And it says "Use Detailed	
22	Targeting	. "	
23		Do you see that?	
24	Α.	Yes.	
25	Q.	And this is in the help center for	03:19:12
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1	advertisers; is that right?	03:19:15
2	A. It's in what we call the business help	
3	center, which is meant for an advertising audience.	
4	But it's open to anyone. Anyone can navigate to	
5	this.	03:19:32
6	Q. So is this describing interest targeting	
7	in the detailed targeting that we described at the	
8	outset of the litigation?	
9	I mean	
10	(Simultaneously speaking.)	03:19:45
11	THE DEPONENT: Yes.	
12	Q. (By Ms. Weaver) I'm sorry.	
13	A. Yes. This is this is describing how	
14	to use detailed targeting, which is the category	
15	for for audiences to select their parameters,	03:19:55
16	which includes interests.	
17	Q. And so it says here on the first page	
18	that you select your audience preferences "by	
19	location, age, gender and language, then by	
20	Detailed Targeting, " correct?	03:20:11
21	A. Yes.	
22	Q. So are you required to identify age and	
23	gender and language as a preliminary threshold?	
24	A. All of our ads have to have a setting for	
25	those, but you can have broad settings so that it's	03:20:27
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1	all it captures all ranges.	03:20:30
2	So as an example, we need to have an age	
3	range for an ad, but that age range could be the	
4	full age range of people on Facebook, so 13 to 65	
5	plus.	03:20:43
6	Similar for gender. We have to have a	
7	setting for it, but it could just be all. So it	
8	is it is something that is a toggle, but the	
9	it doesn't mean you have to have a specific	
10	something specific within those.	03:20:56
11	Q. And and then what about language?	
12	Do you have to select a language?	
13	A. No, similar. It can be all.	
14	Q. Is it more expensive if it's all?	
15	A. No, that wouldn't be it it's not	03:21:19
16	going to be a one to one, if you switch out, to be	
17	more expensive.	
18	Q. Right.	
19	A. I'm not sure what you mean. Sorry.	
20	Q. Yeah. That's not a good question.	03:21:30
21	What I mean is, how many people speak all	
22	languages.	
23	This is your target audience, right?	
24	A. It it doesn't mean that someone has to	
25	speak all languages. It means that any language	03:21:40
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1	and perhaps the actual option is called any. It	03:21:42
2	means that the audience can be any language.	
3	Q. I see. Okay.	
4	And does Facebook find that targeting by	
5	language allows inferences of ethnicity?	03:22:03
6	MR. BENJAMIN: Objection to form.	
7	THE DEPONENT: No. Language is based on	
8	the the the settings people have, like how	
9	they've set up their Facebook and the language	
10	they've chosen. That's not something that is it	03:22:24
11	is not a method of of targeting ethnicity.	
12	Q. (By Ms. Weaver) Now, has Facebook found	
13	that people were impermissibly targeted by gender	
14	or ethnicity using its advertising platform?	
15	MR. BENJAMIN: Objection to form. Vague.	03:22:47
16	THE DEPONENT: Sorry. Can you walk	
17	through what you mean by "impermissibly"?	
18	Q. (By Ms. Weaver) Illegally.	
19	MR. BENJAMIN: Objection to form. And	
20	calls for a legal conclusion.	03:23:01
21	THE DEPONENT: Yeah, I can't speak to if	
22	something was illegal. I can I can share if	
23	there's an example that you're thinking of, of how	
24	those were misused.	
25	Q. (By Ms. Weaver) As you sit here today,	03:23:18
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1	are you aware of any such examples?	03:23:19
2	MR. BENJAMIN: Objection to form.	
3	THE DEPONENT: Specifically for for	
4	I'm sorry. You mentioned two.	
5	Did you say for gender?	03:23:30
6	Q. (By Ms. Weaver) Uh-huh.	
7	A. No, not aware of of a case where it	
8	was misused. But it's worth noting that we don't	
9	permit gender targeting for specific types of ads	
10	to help specifically to prevent misuse. We	03:23:46
11	limit that.	
12	And advertisers who are running housing,	
13	employment and credit ads cannot use gender	
14	targeting. They must maintain it at all. They	
15	cannot select specific genders that's to prevent	03:23:59
16	for misuse.	
17	Q. And how long has that been the case?	
18	A. That's a policy we've had in place since	
19	2018.	
20	Q. And was that a result of litigation?	03:24:09
21	MR. BENJAMIN: Objection to form.	
22	And to the extent you can answer without	
23	disclosing privileged information or	
24	communications, you can do so.	
25	THE DEPONENT: I I think I need a	03:24:26
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1	quick break	03:24:27
2	MS. WEAVER: Okay.	
3	THE DEPONENT: to discuss with Matt	
4	on on AC priv.	
5	THE VIDEOGRAPHER: Okay. Go off the	03:24:37
6	record, everybody?	
7	MS. WEAVER: Yeah, that's fine.	
8	MR. BENJAMIN: Yeah, that's fine.	
9	THE VIDEOGRAPHER: Okay. We're off the	
10	record. It's 3:24 p.m.	03:24:44
11	(Recess taken.)	
12	THE VIDEOGRAPHER: We're back on the	
13	record. It's 3:34 p.m.	
14	Q. (By Ms. Weaver) There was a question	
15	pending when you took a break to consult with your	03:34:25
16	counsel.	
17	Can you answer the question now?	
18	A. Do you mind repeating it.	
19	Q. Sure.	
20	I think the question was, was that a	03:34:33
21	result of litigation?	
22	A. We were discussing the limits for age	
23	gender targeting for housing, employment and credit	
24	ads.	
25	We've always or long have a	03:34:46
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# Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 259 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	long-standing policy that disallows discrimination,	03:34:48
2	including through our targeting tools.	
3	In 2019 I should correct my previous	
4	answer we launched specifically the targeting	
5	limitations for those ads and the spe what we	03:35:00
6	call the the special ad categories for as	
7	part of a settlement with litigation.	
8	Q. And the settlement with who?	
9	A. It I actually don't know all the	
10	parties involved in that litigation. So I might	03:35:20
11	need to to refresh on that.	
12	Q. And prior to that litigation and	
13	settlement, Facebook did not have a policy that	
14	disallowed discrimination through the use of	
15	targeting tools?	03:35:36
16	A. No. Sorry. To clarify, we that's	
17	what I was saying. We've had a long-standing	
18	policy on that disallows discrimination.	
19	In 2019, as part of our settlement with	
20	this litigation, we built the special ad category	03:35:48
21	that disallowed gender selection among other	
22	targeting for housing, employment and credit ads.	
23	And that was from conversations concerned about the	
24	potential for misuse of those.	
25	Q. And does that same tool also prevent	03:36:02
		Page 258

# Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 260 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	targeting based on race, sexual orientation,	03:36:09
2	disability and religion?	
3	A. We don't provide those targeting options	
4	at all to any advertiser.	
5	Q. But was it a problem nonetheless that	03:36:18
6	Facebook's targeted advertising involved	
7	discrimination against people in those	
8	categories	
9	MR. BENJAMIN: Objection.	
10	Q. (By Ms. Weaver) at any point during	03:36:30
11	the class period?	
12	MR. BENJAMIN: I'm sorry. I thought your	
13	question was over.	
14	Objection to form. Misstates.	
15	THE DEPONENT: We don't offer those	03:36:40
16	targeting based on those. And so it it wasn't	
17	relevant to the the how we built our special	
18	ad category, which which restricted targeting	
19	that we do offer.	
20	Q. (By Ms. Weaver) So is it your testimony	03:36:56
21	that at no point did Facebook's advertising give	
22	third-party advertisers "the ability to exclude	
23	ethnic and religious minorities, immigrants, LGBTQ	
24	individuals and other protected groups from seeing	
25	their ads"?	03:37:16
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# Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 261 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	MR. BENJAMIN: Objection to form.	03:37:18
2	THE DEPONENT: We don't offer targeting	
3	based on I'm sorry race or ethnicity or	
4	religious views and there therefore, there	
5	wasn't an ability to exclude those	03:37:30
6	Q. (By Ms. Weaver) Okay.	
7	A based on that.	
8	MS. WEAVER: Let's look at Exhibit 661.	
9	(Exhibit 661 was marked for	
10	identification by the court reporter and is	03:37:39
11	attached hereto.)	
12	MS. WEAVER: And for the record, it's an	
13	announcement from the Washington State office of	
14	the attorney general. The title is "AG Ferguson	
15	investigation leads to Facebook making nationwide	03:37:50
16	changes to prohibit discriminatory advertisements	
17	on its platform."	
18	It's dated July 24th, 2018. And the	
19	first paragraph says "Attorney General Bob Ferguson	
20	today announced that Facebook signed a legally	03:38:05
21	binding agreement with his office to make	
22	significant changes to its advertising platform by	
23	removing the ability of third-party advertisers to	
24	exclude ethnic and religious minorities,	
25	immigrants, LGBTQ individuals and other protected	03:38:20
		Page 260

# Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 262 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	groups from seeing their ads."	03:38:25
2	Do you see that?	
3	THE DEPONENT: I do.	
4	MR. BENJAMIN: Objection. Sorry.	
5	Objection to form.	03:38:31
6	And, Counsel, could you just confirm, was	
7	this a document that was provided to us 72 hours	
8	before the deposition?	
9	MS. WEAVER: I don't believe so. It's in	
10	the public domain.	03:38:36
11	MR. BENJAMIN: So your position is it	
12	didn't need to be identified 72 hours before?	
13	MS. WEAVER: Yes.	
14	Q. (By Ms. Weaver) So, Ms. Leone, do you	
15	see that first paragraph	03:38:58
16	A. I do.	
17	Q that I just read into the record?	
18	A. I do.	
19	Q. Is it your testimony that that is untrue?	
20	A. We did not provide the ability for	03:39:06
21	advertisers to include, or include on the basis of	
22	their ethnic, religious, immigration status. So	
23	this is this misrepresents the options that were	
24	available.	
25	Q. I don't think it's making any	03:39:24
		Page 261

# Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 263 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	representation about the options that are	03:39:26
2	available.	
3	What it is saying is that, in fact,	
4	Facebook signed an agreement so that third-party	
5	advertisers could not discriminate against those	03:39:35
6	parties, right?	
7	That's true; you're not disputing that?	
8	MR. BENJAMIN: Objection to form.	
9	Argumentative. Mischaracterizes.	
10	THE DEPONENT: We built a what is	03:39:50
11	called the special ad category with restricted	
12	targeting options for housing, employment and	
13	credit ads.	
14	It wasn't that the previous options	
15	en like were enabling specifically targeting or	03:40:03
16	exclusion on these protected characteristics.	
17	Because as an example, we don't have people's race	
18	or ethnicity.	
19	Q. (By Ms. Weaver) Is it your testimony	
20	today that there was not an ethnic affinity	03:40:17
21	targeting option at Facebook ever?	
22	A. We had ethnic affinity clusters. Those	
23	are not based on race data or someone's race or	
24	ethnicity.	
25	Q. Okay. Is it your testimony that, in	03:40:32
		Page 262

# Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 264 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	fact, individuals in these protected categories	03:40:36
2	were not discriminated against through advertising	
3	on Facebook's website?	
4	MR. BENJAMIN: Objection to form. Calls	
5	for a legal conclusion. And scope.	03:40:48
6	THE DEPONENT: We didn't identify misuse	
7	here. And we wouldn't necessarily be able to	
8	identify a discriminatory use.	
9	As an example, you could run one ad that	
10	had specific targeting to women. You could then	03:41:04
11	run another ad for men. And overall your campaign	
12	may or may not be problematic.	
13	Similar, out off of Facebook, you	
14	could run an ad on Google for a specific group and	
15	on Facebook for another.	03:41:18
16	It there wasn't a specific case	
17	here a a specific misuse that was being dealt	
18	with. It was a potential that then we correct	
19	we we built this special ad category	
20	functionality for.	03:41:37
21	Q. (By Ms. Weaver) How long did Facebook	
22	have targeted categories for ethnic affinities,	
23	African American US, Asian American US, Hispanic US	
24	all, Hispanic US bilingual, Hispanic US Spanish	
25	domi dominant, and Hispanic US English	03:41:54
		Page 263

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1	dominant?	03:41:57
2	MR. BENJAMIN: Objection to form.	
3	Compound and scope.	
4	THE DEPONENT: Those were categories we	
5	offered as targeting up until 2020.	03:42:08
6	Q. (By Ms. Weaver) And when did they	
7	commence?	
8	MR. BENJAMIN: Same objection.	
9	THE DEPONENT: I'm not sure of the exact	
10	year, but between 2012 and 2014.	03:42:28
11	Q. (By Ms. Weaver) And why did Facebook	
12	discontinue it in 2020 of those categories?	
13	A. We	
14	MR. BENJAMIN: Same objections.	
15	THE DEPONENT: We consistently look at	03:42:47
16	the targeting we offer and whether it's being used,	
17	whether it is still relevant, if there's	
18	duplicative options.	
19	And in 2020, we underwent several updates	
20	across all of our targeting, and those were	03:43:02
21	deprecated as part of a simplification effort.	
22	Q. (By Ms. Weaver) Are you aware of whether	
23	or not, in 2018, Facebook agreed to take steps to	
24	prevent third-party advertisers from excluding	
25	persons from receiving advertisements for	03:43:26
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1	employment, housing, credit, insurance and places	03:43:29
2	of public accommodation, to the extent it affected	
3	the citizens of Washington?	
4	MR. BENJAMIN: Objection to form and	
5	scope.	03:43:43
6	THE DEPONENT: I'm sorry. I I missed	
7	the beginning of the question.	
8	It it was whether we took steps to	
9	prevent exclusion for these ads?	
10	Q. (By Ms. Weaver) Whether Facebook agreed	03:43:51
11	in 2018, with the State of Washington, to take	
12	steps to prevent third-party advertisers from	
13	receiving advertisements for employment, housing,	
14	credit, insurance and places of public	
15	accommodation, to the extent it discriminated	03:44:04
16	against people under those protected categories who	
17	lived in the State of Washington?	
18	MR. BENJAMIN: Objection to form and	
19	scope.	
20	THE DEPONENT: I I'm not I	03:44:16
21	I'm I think I'm misunderstanding the question	
22	because it has "exclusion" and "seeing an ad."	
23	But in in 2018 is when we agreed to	
24	build the category the housing, employment and	
25	credit restrictions, the flow for those ads that	03:44:33
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1	limits the targeting options that they have.	03:44:37
2	Q. (By Ms. Weaver) So Facebook agreed to do	
3	it in 2018, but it didn't happen until 2020; is	
4	that right?	
5	A. No.	03:44:47
6	MR. BENJAMIN: Objection.	
7	Q. (By Ms. Weaver) Please clarify.	
8	A. In 2020, we deprecated, specifically	
9	among other other targeting options for all	
10	advertisers, the multicultural affinity options.	03:45:00
11	Separately, we launched in 2019, the	
12	special ad create flow which which was the	
13	restricted flow for housing, employment and credit	
14	advertisers.	
15	Q. What about	03:45:20
16	A. Those are distinct.	
17	Q. What about insurance	
18	A. Insurance	
19	Q was that included?	
20	A. Insurance is not included with the	03:45:27
21	with the note. If if it is housing insurance or	
22	related mortgage insurance, those are included.	
23	Q. Okay. Just for the record, in 2019, when	
24	Facebook launched the special ad create flow to	
25	restrict the flow, you're saying it was only for	03:45:47
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1	housing, employment and credit advertisers; is that	03:45:51
2	correct?	
3	A. Yes.	
4	Q. What about insurance or places of public	
5	accommodation?	03:46:02
6	MR. BENJAMIN: Objection to form.	
7	MS. WEAVER: I could I just finish the	
8	question?	
9	MR. BENJAMIN: I'm sorry. I thought you	
10	were done.	03:46:09
11	MS. WEAVER: That's fine.	
12	Q. (By Ms. Weaver) So what about insurance	
13	or places of public accommodation, did Facebook	
14	restrict the flow for advertisements relating to	
15	that as well in 2019?	03:46:20
16	MR. BENJAMIN: Objection to form and	
17	scope.	
18	THE DEPONENT: No.	
19	Q. (By Ms. Weaver) Did Facebook for this	
20	flow that Facebook created, did it apply only to	03:46:31
21	the citizens of Washington or did it apply to all	
22	citizens in the United States?	
23	A. It applies to all ads bought by an	
24	advertiser based in the US where and any ad	
25	where the audience includes the US, as well as now	03:46:49
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1	we've launched it in Canada and Europe.	03:46:53
2	Q. And with regard to the ethnic affinity	
3	group deprecation, can you identify which ethnic	
4	affinity group deprecations you're referring to,	
5	which groups?	03:47:12
6	MR. BENJAMIN: Objection to form.	
7	THE DEPONENT: The the names of the	
8	targeting options?	
9	Q. (By Ms. Weaver) Yes.	
10	A. We deprecated African American US. These	03:47:22
11	are all multicultural affinity options. That's	
12	what they were labeled in our and and what	
13	that I'm listing. African American, Hispanic	
14	bilingual, Hispanic Spanish, Hispanic English and	
15	Asian American.	03:47:46
16	Q. Anything else?	
17	A. No, unless I'm missing one. But I	
18	believe there were five. We deprecated all of the	
19	multicultural affinities in in 2022.	
20	Q. Did Facebook perform an economic analysis	03:48:07
21	of the impact of deprecating those affinity groups	
22	as targets?	
23	MR. BENJAMIN: Objection to form and	
24	scope.	
25	THE DEPONENT: Similar to to earlier,	03:48:20
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# Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 270 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	there isn't a an economic or revenue analysis	03:48:21
2	associated with individual targeting options.	
3	Q. (By Ms. Weaver) I understand that. I'm	
4	just saying it's a pretty big decision to deprecate	
5	these kinds of targeting group.	03:48:37
6	And you're saying there was no internal	
7	analysis at Facebook of how it might affect revenue	
8	to deprecate those products; is that what you're	
9	saying?	
10	MR. BENJAMIN: Objection to form and	03:48:49
11	scope.	
12	THE DEPONENT: We don't measure revenue	
13	on a by targeting option basis. And so it's not	
14	how we assess a targeting option or revenue.	
15	Q. (By Ms. Weaver) Okay. How about a cost	03:49:03
16	benefit analysis, are you aware aware of any	
17	internal analyses at Facebook, whether it was a	
18	good idea or not to deprecate multicultural	
19	affinity groups and the impact it might have on	
20	Facebook?	03:49:20
21	MR. BENJAMIN: Objection to form and	
22	scope.	
23	THE DEPONENT: In making in	
24	assessing whether to to maintain or remove	
25	those, we look at their use. We look at an	03:49:27
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1	understanding of who beneficial uses of those,	03:49:34
2	as an example. And so that was definitely part of	
3	the consideration. But it is not in the form of a	
4	revenue number.	
5	Q. (By Ms. Weaver) Okay. So there were	03:49:46
6	internal analyses that were considering whether or	
7	not to deprecate the multi multicultural	
8	affinity groups; is that right?	
9	MR. BENJAMIN: Objection to form.	
10	Misstates. And scope.	03:50:00
11	THE DEPONENT: It was an internal	
12	conversation from the ads product team, their	
13	policy and legal counterparts on on those	
14	options. The same way that we would have discussed	
15	any other option. In fact, the deprecation that	03:50:14
16	they were part of was a broader deprecation.	
17	Q. (By Ms. Weaver) What was the broader	
18	deprecation that they were part of?	
19	A. We simplified our targeting options in	
20	August 2020. It included removing duplicative	03:50:28
21	options. Options that were unclear that	
22	advertisers didn't understand. And this was part	
23	of that effort.	
24	Q. Who, in the ads product team, was	
25	involved in the internal discussions regarding	03:50:42
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		I

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1	whether or not to deprecate the multicultural	03:50:45
2	affinity groups?	
3	A. Our ad targeting team was involved. Ads	
4	leadership was involved.	
5	Q. And who by name?	03:50:56
6	A. I'm I'm sorry. I'm trying to remember	
7	specifically who was the ads lead at the time.	
8	This would have been within ads product.	
9	Dan Levy was likely involved, but I I can't	
10	remember who else on his team.	03:51:44
11	Q. And did it violate Facebook's policy for	
12	multicultural affinity group targeting to	
13	discriminate against people who were put in those	
14	target groups with respect to advertising involving	
15	housing and employment, for example?	03:52:05
16	MR. BENJAMIN: Objection to form.	
17	THE DEPONENT: So we disallowed	
18	discriminatory use of our tools, regardless of any	
19	specific option. That's that's not something we	
20	permit.	03:52:24
21	In in 2018, we disallowed the use of	
22	those multicultural affinity targets options	
23	with housing employment and credit ads. And in	
24	2019, we created a specific flow so that they	
25	couldn't be selected with those ads at all.	03:52:39
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1	Q. (By Ms. Weaver) And I'm just trying to	03:52:42
2	say, so in Facebook's view, was that an abuse of	
3	Facebook's advertising platform, for advertisers to	
4	engage in programs that discriminated against	
5	persons in those protected categories from	03:52:57
6	receiving advertisements for employment, housing	
7	and credit?	
8	MR. BENJAMIN: Objection to form.	
9	THE DEPONENT: Discriminatory uses	
10	against our policies. The use of these segments	03:53:13
11	was not discriminatory. That wasn't our conclusion	
12	or estimate. As part of efforts to prevent misuse,	
13	we disallowed them being used with housing,	
14	employment and credit ads.	
15	And, again, to clarify, those segments	03:53:27
16	are not representative or base those are not	
17	based on our representative of people's race or	
18	ethnicity.	
19	Q. (By Ms. Weaver) What are the data inputs	
20	to determine multicultural affinity groups that was	03:53:40
21	the targeting categories that Facebook created?	
22	A. Those are based on info people have	
23	provided us, as well as their activity on Facebook.	
24	Q. And what specific activity caused	
25	Facebook to put somebody in one of these	03:54:00
		Page 272

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1	multicultural affinity groups?	03:54:04
2	A. People's engagement with pages could	
3	associate them with one of these.	
4	Q. Can you give me a specific example of a	
5	kind of engagement that would put a person in an	03:54:13
6	African American affinity group?	
7	A. If you engage with a page a cultural	
8	page related to African American culture and you	
9	like that page, you follow it, this could be a	
10	group that you're you could be in this target	03:54:30
11	option.	
12	Q. What is a cultural page related to	
13	African American culture?	
14	MR. BENJAMIN: Objection to form.	
15	THE DEPONENT: I I don't know the	03:54:41
16	exact list of pages. But an example could be	
17	Black Lives Matter.	
18	Q. (By Ms. Weaver) This was, of course,	
19	before BLM, right?	
20	MR. BENJAMIN: Objection to form.	03:54:54
21	Q. (By Ms. Weaver) Could you give me an	
22	example of a cultural page related to African	
23	American culture that was actually used to	
24	determine whether or not somebody was in an African	
25	American affinity group?	03:55:07
		Page 273

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1	A. I think	03:55:12
2	MR. BENJAMIN: Objection to form and	
3	and scope.	
4	THE DEPONENT: I don't have the list of	
5	pages specifically that were used. That was an	03:55:19
6	illustrative example. I can think of another one,	
7	if that's useful. But it's meant to to indicate	
8	the type of page and you there there's	
9	similar ones for Hispanic culture. You could look	
10	at cuisine pages related to Hispanic cuisine	03:55:36
11	would have been used as well.	
12	Q. (By Ms. Weaver) What does Hispanic mean	
13	in this context of Facebook's multicultural	
14	affinity group?	
15	MR. BENJAMIN: Objection to form and	03:55:55
16	scope.	
17	THE DEPONENT: It's simply the how	
18	the naming of the page or of the common topics	
19	that people were engaging with.	
20	Q. (By Ms. Weaver) In Facebook's view, what	03:56:08
21	does Hispanic mean when it created this	
22	multicultural affinity group?	
23	MR. BENJAMIN: Objection to form and	
24	scope.	
25	THE DEPONENT: I don't think that we have	03:56:19
		Page 274

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1	a a Facebook definition of Hispanic. This was	03:56:20
2	meant to indicate that these are this targeting	
3	option was meant to indicate that people have	
4	engaged with Hispanic culture on Facebook. So that	
5	could be Hispanic culture-related pages. It could	03:56:35
6	be because their language is in Spanish.	
7	There are a number of reasons and ways	
8	that someone could be part of this, based on the	
9	info they provided and the activity on their	
10	platform.	03:56:48
11	Q. (By Ms. Weaver) What does Hispanic	
12	culture mean, in Facebook's view?	
13	MR. BENJAMIN: Objection. Asked and	
14	answered and scope.	
15	THE DEPONENT: Again, we don't define	03:57:02
16	Hispanic culture. I don't think we have a specific	
17	definition for that.	
18	Q. (By Ms. Weaver) But somehow you were	
19	you must have had some definition because, based on	
20	specific kinds of activity, you decided that people	03:57:12
21	were in an Hispanic multicultural group.	
22	So I guess I'm just wondering what the	
23	parameters were that Facebook used to decide that	
24	something was an Hispanic activity?	
25	MR. BENJAMIN: Objection to form and	03:57:28
		Page 275

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1	scope.	03:57:30
2	THE DEPONENT: To we weren't defining	
3	if something is a Hispanic activity. We were	
4	looking at the topics people engage with and if	
5	those topics relate to Hispanic culture.	03:57:42
6	So that could be things like speaking	
7	Spanish. It could be like Hispanic cuisine. It	
8	could be Spanish-speaking telenovelas. These are	
9	things that also the pages themselves identify as	
10	part of this culture. And the people who engage	03:57:59
11	with them were then included in this targeting	
12	option.	
13	Q. (By Ms. Weaver) Does Facebook have a	
14	list of the activities that it deemed sufficient to	
15	trigger inclusion in each of these ethnic	03:58:11
16	multicultural affinity groups?	
17	MR. BENJAMIN: Objection to	
18	THE DEPONENT: Facebook	
19	MR. BENJAMIN: Objection to scope.	
20	THE DEPONENT: One action is not going to	03:58:25
21	trigger anyone to be part of really any of of	
22	the interests or or multicultural affinity	
23	options. This is about repeated continuous	
24	engagement. So if someone's activity over time	
25	showed that they were interested in these topics.	03:58:42
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1	scope.	03:59:58
2	THE DEPONENT: It's pages that relate to	
3	this. So that could be based on a pages	
4	description saying they are related to Hispanic	
5	culture, as an example.	04:00:10
6	Q. (By Ms. Weaver) Okay. So does Facebook	
7	have a list, as an example, of just the pages that	
8	Facebook deemed related to multicultural affinity	
9	groups, of of the categories that were	
10	deprecated in 2020?	04:00:24
11	A. Those categories were deprecated in 2020,	
12	and I believe we don't maintain that once a	
13	category is deprecated.	
14	Q. Are you aware and you're not aware of	
15	whether or not there was a litigation hold or	04:00:44
16	requirement as a result of litigation that Facebook	
17	maintain those categories?	
18	MR. BENJAMIN: Objection sorry.	
19	Objection to form and scope. And to the	
20	extent that it calls for legal analysis or	04:00:56
21	conclusion.	
22	I'd also caution you, Ms. Leone, to carve	
23	out of your answer any privileged information or	
24	communications.	
25	THE DEPONENT: I'm not certain on if	04:01:08
		Page 278

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1	it was under a legal hold or not. And I'm also not	04:01:10
2	certain if we have it or not, given that these were	
3	deprecated.	
4	Q. (By Ms. Weaver) So is it your	
5	understanding that if Facebook deprecates a	04:01:17
6	product, Facebook doesn't maintain any information	
7	relating to that deprecated product?	
8	MR. BENJAMIN: Objection to form.	
9	Misstates and scope.	
10	THE DEPONENT: No, that's not my	04:01:33
11	understanding. But when we deprecate a product, we	
12	are not maintaining or it is not continuously	
13	associating. And and that's what I meant. It's	
14	not continuously looking for pages that might be	
15	related to that topic. It's shut down.	04:01:49
16	Q. (By Ms. Weaver) So your testimony was	
17	"Those categories were deprecated in 2020, and I	
18	believe we don't maintain that once a category is	
19	deprecated."	
20	Do you recall that?	04:02:11
21	A. Yes.	
22	Q. And when you say "we don't maintain	
23	that," what did you mean?	
24	A. I mean what I was just describing, which	
25	is that we're not continuously associating	04:02:21
		Page 279

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[		
1	engagement into those categories. And I don't know	04:02:24
2	to whichever degree, under legal hold or otherwise,	
3	what we maintain historically.	
4	Q. Now, it's your testimony that Facebook	
5	has not taken steps to prevent third-party	04:02:43
6	advertisers from excluding people from receiving	
7	advertisements for insurance or places of public	
8	accommodation, is that right, based on these	
9	protected characteristics of the ethnic affinity	
10	groups, disability, et cetera; is that right?	04:03:00
11	MR. BENJAMIN: Objection to form.	
12	Misstates and compound.	
13	THE DEPONENT: Yeah, there are a few	
14	parts.	
15	We don't have targeting options related	04:03:11
16	to protected people's race or ethnicity, as a	
17	starting point. That's not what multicultural	
18	affinities were.	
19	House the any ad has to abide by	
20	our nondiscrimination policy. And we don't	04:03:26
21	including an insurance ad, regardless of the	
22	whether or not they're AG they're housing,	
23	employment or credit.	
24	MS. WEAVER: Okay. Why don't we take a	
25	look at Exhibit 662.	04:03:50
		Page 280

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1	(Exhibit 662 was marked for	04:03:52
2	identification by the court reporter and is	
3	attached hereto.)	
4	MR. BENJAMIN: And, Counsel, is this a	
5	document that was provided to us	04:04:10
6	MS. WEAVER: No, it's public.	
7	MR. BENJAMIN: in 72 hours?	
8	Okay. And what paragraph of the	
9	Special Master's protocol are you relying on for	
10	that exception?	04:04:19
11	MS. WEAVER: We can have a colloquy off	
12	the record, if you like.	
13	MR. BENJAMIN: Special Master, however	
14	you prefer. Happy to discuss outside the presence	
15	of the witness.	04:04:28
16	SPECIAL MASTER GARRIE: I'd ask the	
17	witness to yeah, go to breakout room. We'll	
18	stay on the record.	
19	What's the issue, Counsel Benjamin?	
20	MR. BENJAMIN: I just wanted to clarify,	04:04:53
21	Special Master, the Counsel Weaver's basis for	
22	not having provided the documents, under the	
23	Special Master protocol, 72 hours in advance.	
24	SPECIAL MASTER GARRIE: It's a publicly	
25	available document	04:05:05
		Page 281

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1	MS. WEAVER: Yes.	04:05:09
2	SPECIAL MASTER GARRIE: and I believe	
3	that well, Counsel Weaver, would you care to	
4	explain?	
5	MS. WEAVER: Yeah. I mean, if we had to	04:05:13
6	provide to Facebook every publicly available	
7	document about Facebook, it would be reams.	
8	We've talked about the topic. Facebook	
9	itself identified a ton of policies talking about	
10	how people may or may not target people based on	04:05:25
11	gender or age.	
12	So, you know, from my perspective, we are	
13	perfectly entitled to discuss this with Facebook,	
14	particularly given the assertions of this deponent	
15	in this deposition, that this kind of targeting did	04:05:41
16	not occur. These are also coming in as	
17	impeachment.	
18	So look, I can do it two ways. You can	
19	say you don't want this witness to discuss these	
20	documents right now. And then I will file a new	04:05:52
21	notice because it's relevant. It's obviously data	
22	misuse and relevant to the case. And we can call	
23	the witness back at another time and do this kind	
24	of questioning.	
25	But I I really we were not trying	04:06:05
		Page 282

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1	to pull a fast one. It just didn't occur to me	04:06:07
2	that we had to provide to Facebook you know,	
3	Exhibit 662 is an assurance of discontinuance	
4	signed by Facebook so	
5	MR. BENJAMIN: And and all I really	04:06:21
6	all I wanted to do is just to clarify the basis for	
7	using the document as an exhibit in the deposition.	
8	MS. WEAVER: Okay.	
9	MR. BENJAMIN: So I'm happy to	
10	SPECIAL MASTER GARRIE: And I think she	04:06:30
11	did for so so Counsel Benjamin, she said for	
12	impeachment purposes and there's your explanation.	
13	MR. BENJAMIN: Yeah. I'm not sure I'd	
14	agree with that characterization, Special Master,	
15	I'm happy to let the questioning	04:06:39
16	SPECIAL MASTER GARRIE: I'm not I'm	
17	not let's be clear, my restatement isn't a	
18	representation that I agree or disagree. That is a	
19	represent that is what plaintiffs stated.	
20	MR. BENJAMIN: Under understood. And	04:06:51
21	happy to let questioning on the document proceed on	
22	that basis.	
23	Thank you for clarifying.	
24	SPECIAL MASTER GARRIE: Okay. So with	
25	that said, should we call the witness back?	04:07:03
		Page 283

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1	MS. WEAVER: Yes.	04:07:07
2	MR. BENJAMIN: Yes.	
3	MS. WEAVER: Yes.	
4	MR. BENJAMIN: I'll I'll grab her.	
5	SPECIAL MASTER GARRIE: Thank you.	04:07:12
6	John, did Counsel Benjamin say we were	
7	taking a break or is he getting the witness?	
8	THE VIDEOGRAPHER: They were just going	
9	to go get the witness. So we're still on the	
10	record.	04:09:29
11	SPECIAL MASTER GARRIE: Okay.	
12	MS. WEAVER: Can we go off the record, if	
13	we're just sitting here in silence?	
14	SPECIAL MASTER GARRIE: Well, I didn't	
15	think we would be sitting here in silence, so I	04:10:07
16	agree.	
17	MS. WEAVER: Thank you.	
18	SPECIAL MASTER GARRIE: Let's go off the	
19	record.	
20	THE VIDEOGRAPHER: Okay. We're off the	04:10:14
21	record. It's 4:10 p.m.	
22	(Recess taken.)	
23	THE VIDEOGRAPHER: Okay. We're back on	
24	record. It's 4:12 p.m.	
25	Q. (By Ms. Weaver) Ms. Leone, have you had	04:12:08
		Page 284

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1	a moment to look at Exhibit 662?	04:12:10
2	A. I I started to read through it. I	
3	haven't read through it. But yes, I have.	
4	MS. WEAVER: Okay. Take your time.	
5	And while you're reading through it, just	04:12:19
6	for the record, Exhibit 662 says State of	
7	Washington, King County Superior Court, In re:	
8	Facebook, Respondent, Assurance of Discontinuance,	
9	and it's dated July 24th, 2018.	
10	Q. (By Ms. Weaver) And I'll direct your	04:12:48
11	attention to paragraph 3.2.	
12	A. I'm there, and I've read through most of	
13	3.2.	
14	Q. Okay. But let me ask first, were you	
15	aware of this notice of discontinuance?	04:13:23
16	A. Yes.	
17	Q. And and how did you become aware of	
18	it?	
19	A. I was on I was part of the team on	
20	ads on ads at the time.	04:13:37
21	Q. And so were you involved in taking steps	
22	to prevent third-party advertisers from excluding	
23	persons that were the subject of a lawsuit from	
24	discrimination or from receiving advertisements	
25	based on protected characteristics?	04:13:55
		Page 285

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1	MR. BENJAMIN: Objection to form and	04:13:59
2	scope.	
3	THE DEPONENT: I was involved in updates	
4	to our platform. To be clear, this is that was	
5	distinct from that that these targeting	04:14:09
6	options weren't discriminatory. But I was involved	
7	in updating our targeting options.	
8	Q. (By Ms. Weaver) Okay. And looking at	
9	paragraph 3.2, do you see where it says "Although	
10	Facebook denies these allegations, Facebook agrees	04:14:23
11	to take the following steps intended to prevent	
12	third party advertisers from excluding persons from	
13	receiving advertisements for employment, housing,	
14	credit, insurance and/or places of public	
15	accommodation based on the Protected	04:14:39
16	Characteristics to the extent they affect citizens	
17	of Washington State."	
18	Do you see that?	
19	A. Yes.	
20	Q. And you've testified that Facebook has	04:14:50
21	taken steps to prevent advertisers from excluding	
22	persons from employment, housing and credit, but	
23	not insurance or places of public accommodation; is	
24	that true?	
25	MR. BENJAMIN: Objection to form.	04:15:06
		Page 286

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1	Missississ the testiment and some	04:15:07
1	Misstates the testimony and scope.	04:15:07
2	THE DEPONENT: They're two separate	
3	pieces. In 2019, we launched the updates to our	
4	housing, employment and credit ads, which	
5	restricted the targeting they could they could	04:15:18
6	use when running an ad.	
7	In 2018, we updated to remove the	
8	exclusion capability for all ads related related	
9	to the multicultural affinity segments and other	
10	interests. And across the board, prior to that,	04:15:34
11	our policy has always been our nondiscrimination	
12	policy has always been in place.	
13	Q. (By Ms. Weaver) So there was a policy	
14	that said that you could not discriminate.	
15	But prior to that time, advertisers could	04:15:46
16	exclude people based on the protected	
17	characteristics identified in 662, right?	
18	A. No. Because our targeting options don't	
19	represent those protected characteristics.	
20	Q. Did Facebook have a targeting category	04:16:10
21	for wheelchair users?	
22	A. There was an	
23	MR. BENJAMIN: Objection objection to	
24	form.	
25	THE DEPONENT: There was an interest	04:16:19
		Page 287

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1	called wheelchair users. It was not based on	04:16:20
2	whether or not someone uses a wheelchair.	
3	Q. (By Ms. Weaver) Was there a targeting	
4	characteristics for Chinese people?	
5	MR. BENJAMIN: Objection to form.	04:16:33
6	THE DEPONENT: There might have been an	
7	interest called Chinese people. But, again, it was	
8	not based on whether or not someone was Chinese.	
9	Q. (By Ms. Weaver) Was there a targeting	
10	characteristic for Chinese literature and	04:16:47
11	disability rights?	
12	MR. BENJAMIN: Same objection.	
13	THE DEPONENT: Yes. Both of those seem	
14	like they would have been interests as well.	
15	Q. (By Ms. Weaver) Do you recall any other	04:16:59
16	targeting characteristics that were addressed in	
17	this lawsuit related to the multicultural affinity	
18	groups?	
19	MR. BENJAMIN: Objection to form and	
20	scope.	04:17:13
21	THE DEPONENT: These aren't targeting	
22	characteristics, just to be clear. These list	
23	targeting options. Is that	
24	Q. (By Ms. Weaver) That's fine. I'll	
25	restate the question.	04:17:21
		Page 288

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1	A. There I can think of	04:17:25
2	Q. Let	
3	A. Sorry.	
4	Q. Yeah. Let me let me ask the question.	
5	Are you aware, as you sit here today, of	04:17:30
6	any other targeting options that related to the	
7	multicultural affinity groups that were involved in	
8	the subject matter of this lawsuit?	
9	A. So these are	
10	MR. BENJAMIN: Objection. I'm sorry,	04:17:43
11	Bella.	
12	Objection to form and scope.	
13	THE DEPONENT: These are distinct. These	
14	are interests. They were also removed from	
15	exclusion. Multicultural affinity targeting	04:17:51
16	options are their own set of options. And those	
17	were also removed from exclusion. More than just	
18	these two were removed from exclusion.	
19	Q. (By Ms. Weaver) So can you identify any	
20	others that were removed from exclusion?	04:18:06
21	MR. BENJAMIN: Objection to scope.	
22	THE DEPONENT: I I I don't know	
23	that I can think of an example, just off the cuff,	
24	of an interest we removed from exclusion at the	
25	time.	04:18:28
		Page 289

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1	Q. (By Ms. Weaver) Can Facebook create a	04:18:33
2	list of the exclusions that were ceased as a result	
3	of this litigation?	
4	A. My understanding is that we could.	
5	Q. And how would you do that?	04:18:53
6	A. I think we've maintained the one or	
7	maintained a list of what we updated because some	
8	of these may still be available for inclusion. And	
9	so we would we would know which ones those are.	
10	Q. Other than this instance, are you aware	04:19:17
11	of other deprecated targeting options that have	
12	occurred from 2007 to the present?	
13	And let's exclude partner categories as	
14	well for now.	
15	A. Yes, we we've iterated what the	04:19:33
16	targeting options numerous times over the years,	
17	both adding and removing targeting options.	
18	Q. On how many occasions?	
19	MR. BENJAMIN: Objection to form. Vague.	
20	THE DEPONENT: Our review and update is	04:19:50
21	pretty continuous. I don't think that there's like	
22	a a finite number of occasions where that's	
23	happened.	
24	Q. (By Ms. Weaver) On how many occasions	
25	has Facebook deprecated targeting options as a	04:20:02
		Page 290

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1	result of litigation or regulatory investigating?	04:20:04
2	MR. BENJAMIN: Objection to form.	
3	And I'd caution the witness not to	
4	disclose privileged information in her response.	
5	THE DEPONENT: I I don't think I can	04:20:25
6	share an exact number.	
7	Q. (By Ms. Weaver) Is it more than 20?	
8	A. Occasions?	
9	Q. Yes.	
10	MR. BENJAMIN: Same objections and	04:20:35
11	caution.	
12	THE DEPONENT: I I don't think I can	
13	share a response.	
14	Q. (By Ms. Weaver) When you say you don't	
15	think you can share, is that because you don't know	04:20:42
16	or because you think it's privileged?	
17	A. More the latter.	
18	MS. WEAVER: I just need some clarity	
19	here, Counsel.	
20	Are you asserting a privilege over the	04:20:53
21	number of times that Facebook has deprecated	
22	targeting options following litigation?	
23	MR. BENJAMIN: May may I ask the	
24	witness? It would be helpful to confer about	
25	privilege.	04:21:08
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1	MS. WEAVER: That's fine.	04:21:09
2	THE DEPONENT: That sounds good. Sorry.	
3	Thank you.	
4	SPECIAL MASTER GARRIE: Let's go off the	
5	record.	04:21:13
6	THE VIDEOGRAPHER: Okay. We're off the	
7	record. It's 4:21 p.m.	
8	(Recess taken.)	
9	THE VIDEOGRAPHER: We're back on the	
10	record. It's 4:32 p.m.	04:32:08
11	Q. (By Ms. Weaver) Before we broke, the	
12	pending question was, on how many occasions has	
13	Facebook deprecated targeting options as a result	
14	of litigation or regulatory investigation?	
15	MR. BENJAMIN: And object to form and	04:32:21
16	scope.	
17	You can answer.	
18	THE DEPONENT: I'm aware of two times	
19	that we've updated targeting options as a result of	
20	settlements that we came to in litigation.	04:32:32
21	Q. (By Ms. Weaver) And what are those two	
22	times?	
23	A. Once is the NAFFA settlement in 2019,	
24	where we limited the targeting options for housing,	
25	employment and credit ads.	04:32:45
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1	And this the other time is this one	04:32:47
2	from Washington State where we removed the	
3	capability of exclusion for targeting options	
4	several targeting options.	
5	Q. And then at a later point in time	04:32:56
6	Facebook removed the exclusion targeting option	
7	altogether; is that right?	
8	A. No. Sorry. We we you can exclude	
9	some types of targeting. That was not a change we	
10	made.	04:33:13
11	I'm not sure if that was something I I	
12	confused on before. Let me know if I can clarify.	
13	Q. Okay. So for example, today, is it okay	
14	on Facebook for advertisers to exclude people with	
15	veteran or military military status?	04:33:27
16	MR. BENJAMIN: Objection to form and	
17	scope.	
18	THE DEPONENT: We don't have someone's	
19	military status. But that related targeting	
20	options, like an interest in in a veteran topic	04:33:47
21	would not be available for exclusion, after the	
22	updates that we made in 2018.	
23	Q. (By Ms. Weaver) And so prior to 2018,	
24	advertisers could exclude from related targeting	
25	options users with veteran or military status; is	04:34:11
		Page 293

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1	that right?	04:34:19
2	MR. BENJAMIN: Objection to form.	
3	Misstates and scope.	
4	THE DEPONENT: The interests so for	
5	example, topics similar to the ones we were	04:34:26
6	discussing before, such as wheelchair users, those	
7	were available for inclusion and exclusion. In	
8	2018, we updated them to be inclusion only and not	
9	usable for exclusion.	
10	Q. (By Ms. Weaver) And the other similar	04:34:41
11	interests that were available for exclusion prior	
12	to 2018, included sexual orientation and	
13	disability; is that right?	
14	A. Interests. Again, not specifically based	
15	on people's characteristics.	04:34:57
16	Q. And so what kinds of interests are	
17	related to sexual orientation, in Facebook's view?	
18	MR. BENJAMIN: Objection to form and	
19	scope. Foundation.	
20	THE DEPONENT: An example would be a	04:35:16
21	cause or an organization related to LGBTQ.	
22	Q. (By Ms. Weaver) Would it also include	
23	visits to specific websites looking for, for	
24	example, HIV medication?	
25	MR. BENJAMIN: Same objections.	04:35:33
		Page 294

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1	THE DEPONENT: That's not part of	04:35:35
2	interest targeting. I'm not sure of the connection	
3	in there.	
4	Q. (By Ms. Weaver) Okay. What other	
5	interests targeting did Facebook deem to be	04:35:40
6	associated with sexual orientation?	
7	A. I that	
8	MR. BENJAMIN: Objection objection to	
9	form and scope.	
10	THE DEPONENT: Specifically, it was	04:35:50
11	interests that were related to causes,	
12	organizations or events that tied into LGBTQ.	
13	Q. (By Ms. Weaver) Does Facebook have a	
14	list of the interests that related to those	
15	categories as well, meaning veteran, military	04:36:07
16	status, sexual orientation and disability?	
17	MR. BENJAMIN: Objection to form.	
18	THE DEPONENT: We have a as I was	
19	explaining before, we would be able to look at the	
20	interests that are currently only or that were	04:36:23
21	updated to be inclusion only. And that would be	
22	effectively what you're asking, I think.	
23	MS. WEAVER: And so we're making formal	
24	request, Counsel, for production of those.	
25	Q. (By Ms. Weaver) Okay. I'm going to go	04:36:43
		Page 295

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1	back for the third time to Exhibit 657 this is	04:36:46
2	not your fault, this is my fault to the bullet	
3	point that says "Facebook's policies restricting"	
4	users "advertisers' use of advertising-related	
5	data" limiting it to the use case.	04:37:02
6	Do you remember we tried to talk about	
7	that a couple times now?	
8	A. Yes. We discussed it earlier.	
9	Q. We did.	
10	What steps did Facebook take to enforce	04:37:09
11	those policies; that is, to limit advertisers' use	
12	of advertising-related data to the use case?	
13	A. One of the most impactful and important	
14	steps we take is that we build our product to help	
15	prevent for potential misuse.	04:37:33
16	And as an example, we the the	
17	minimum audience threshold and only providing	
18	aggregated information to advertisers without	
19	disclosing to them who saw their ad are protections	
20	to ensure that that advertisers only use	04:37:51
21	advertising-related data for the use case of	
22	placing ads.	
23	Q. Is there any kind of task force that	
24	investigates to make sure that advertisers are	
25	using advertising-related data only for the	04:38:06
		Page 296

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1	advertising?	04:38:09
2	MR. BENJAMIN: Objection to form.	
3	THE DEPONENT: Again, because we don't	
4	disclose that information, advertisers don't have	
5	access to who saw their ad or they're and	04:38:21
6	they're not able to to reidentify that, which is	
7	the primary restriction and protection.	
8	Q. (By Ms. Weaver) Okay. The question was,	
9	is there any kind of task force at Facebook that	
10	operates to make sure advertisers are using	04:38:41
11	advertising-related data only for advertising?	
12	A. I'm not clear what they would look for,	
13	since our product does not provide the user level	
14	information to advertisers.	
15	Q. Okay. But I'm I'm not asking what	04:39:00
16	I'm literally just saying, is there a task force,	
17	yes or no?	
18	MR. BENJAMIN: Objection to form.	
19	THE DEPONENT: I I understand the	
20	question.	04:39:13
21	It seems to assume that the task force	
22	would have to look for something. And my point is	
23	that the product does not give the advertisers who	
24	saw their ad. And so I'm not sure what the task	
25	force would accomplish.	04:39:24
		Page 297

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1	Q. (By Ms. Weaver) Okay. I have that	04:39:25
2	answer. You don't need to give it again.	
3	The question is, is today, does Facebook	
4	have a task force that is focused on ensuring that	
5	advertisers' use of advertising-related data is	04:39:36
6	limited to advertising?	
7	MR. BENJAMIN: Object to form.	
8	Argumentative. And asked and answered.	
9	THE DEPONENT: The product build those	
10	protections in. We don't have an additional task	04:39:59
11	force looking at this specifically because the	
12	product has those protections built in.	
13	Q. (By Ms. Weaver) Thank you.	
14	What is the ads integrity team?	
15	A. Ads integrity was was a team. It's	04:40:23
16	been renamed business integrity. Helps uphold our	
17	advertising policies. So the policies that that	
18	dictate the type of content and restrictions on	
19	advertising.	
20	Q. What specific policies does the ads	04:40:41
21	integrity team enforce, and can you give examples	
22	of such enforcement?	
23	MR. BENJAMIN: Objection to form.	
24	THE DEPONENT: Yeah. The as an	
25	example, under our policies, they're restricted	04:40:55
		Page 298

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1	content, prohibited content. The advertiser or	04:40:58
2	business integrity team manages those policies	
3	and and builds our detection for them.	
4	Q. (By Ms. Weaver) What do you mean by	
5	restricted content?	04:41:12
6	A. So as an example, content that we require	
7	specific targeting parameters for or disallow other	
8	targeting parameters for.	
9	Q. What is an example of content that you	
10	require specific targeting parameters for?	04:41:27
11	A. In order to run an alcohol ad, the	
12	advertiser must set their targeting to 18 plus or	
13	21 plus, depending on the location they're trying	
14	to run their ad.	
15	Q. Any other examples that you can think of?	04:41:41
16	A. Yes. Weight loss ads must be 18 and	
17	above. Similar, gambling ads require specific	
18	have an advertiser choosing to run a gambling ad	
19	has to also have age targeting set appropriately	
20	for their location.	04:42:00
21	There's content we also outright prohibit	
22	that's under our	
23	Q. Like what?	
24	A. We don't allow weapons to be sold in ads.	
25	We don't allow discriminatory content. We don't	04:42:12
		Page 299

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I		
1	back to the restricted examples.	04:42:16
2	We don't allow housing, employment and	
3	credit advertisers to run you they have to	
4	run with the specific limited targeting options	
5	provided to them after 2019. That's an example of	04:42:26
6	something that the business integrity team	
7	enforces.	
8	Q. Anything else?	
9	A. Yes. If I mean, the the policies	
10	in our advertising policies are enforced on by our	04:42:42
11	business integrity team. Those were examples.	
12	Q. Right.	
13	So what specific policies are you	
14	thinking of that they say that they enforce?	
15	MR. BENJAMIN: Objection to form and	04:42:56
16	scope.	
17	THE DEPONENT: I'm sorry. Can you repeat	
18	the question.	
19	Q. (By Ms. Weaver) Yes.	
20	So I if you go to Exhibit 657, the	04:43:08
21	the middle bullet point says "Ms. Leone will be	
22	prepared to discuss: The role of Facebook's Ads	
23	Integrity Team."	
24	Do you see that?	
25	A. Yes.	04:43:21
		Page 300

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1	Q. So what specific policies is the ads	04:43:21
2	integrity team enforcing?	
3	A. Our advertising policies are what they	
4	enforce. The examples I gave were the restricted	
5	content and prohibited content sub-policies within	04:43:35
6	there. I don't know the full set of policies off	
7	by heart.	
8	Q. Can you think of any other examples, as	
9	you sit here?	
10	MR. BENJAMIN: Objection to form. Vague.	04:43:54
11	THE DEPONENT: In addition to the	
12	restricted content policies that I	
13	Q. (By Ms. Weaver) Yes.	
14	A explained, such as alcohol, gambling,	
15	weight loss, and the prohibited content, such as	04:44:03
16	weapons, hateful content hateful anything	
17	that that goes against our community standards.	
18	So if you're promoting something we've designated	
19	as a dangerous organization, those are all areas	
20	that they would help enforce.	04:44:23
21	Q. So there's a myriad of ways in which	
22	Facebook can enforce and limit the scope of	
23	advertising content sent to users, right?	
24	A. We have enforcement for those policies,	
25	yes.	04:44:40
		Page 301

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1	Q. But there is no task force to enforce	04:44:48
2	whether or not advertisers are using data for use	
3	cases other than advertising, correct?	
4	MR. BENJAMIN: Objection. Objection to	
5	form.	04:44:59
6	THE DEPONENT: Our protections to prevent	
7	misuse is that we build the products so they don't	
8	get that data. That is an upstream protection that	
9	is distinct from enforcing a content policy where	
10	there isn't the same corollary. It's it's a	04:45:14
11	very different problem space and so we built it	
12	into the product.	
13	Q. (By Ms. Weaver) So if you learned that	
14	third parties were scraping, for example, Facebook	
15	user IDs, there's no task force that could	04:45:25
16	investigate to prevent it.	
17	Facebook simply relies on the fact that	
18	the policy is they're not supposed to do that; is	
19	that right?	
20	MR. BENJAMIN: Objection to form.	04:45:36
21	Misstates prior testimony. Argumentative.	
22	THE DEPONENT: That's incorrect. We have	
23	teams that look at scraping. That is outside of	
24	advertising. It is not relevant to the information	
25	we provide to advertisers in their performance	04:45:50
		Page 302

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1	in the performance of their ads.	04:45:53
2	Q. (By Ms. Weaver) And would you view	
3	yourself as a privacy specialist?	
4	A. That is not a title I assign to myself.	
5	Q. Okay. So within	04:46:04
6	A. I'm not sure what we mean by it.	
7	Q. Sure.	
8	Within the scope of your you've been	
9	the privacy a privacy and policy manager at	
10	Facebook since November 2019; is that right?	04:46:15
11	A. Yes.	
12	Q. And what are your duties and	
13	responsibilities in that role?	
14	A. I work with our ads product teams to	
15	understand where they're going to develop future	04:46:27
16	products. I consult with them. I work with them	
17	on updates to our current products.	
18	Q. So what's the privacy piece of your job	
19	description that appears in your title?	
20	A. I focus on Facebook's data use.	04:46:42
21	Q. And when you say "Facebook's data use,"	
22	what do you mean?	
23	A. I mean the type of information that we	
24	use for ads.	
25	Q. And do you focus on what information	04:46:53
		Page 303

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1	Facebook shares with third parties?	04:46:56
2	A. That sometimes is in scope in the context	
3	of ads.	
4	Q. Is there somebody else who's primarily	
5	responsible for addressing what Facebook what	04:47:05
6	information Facebook shares with third parties and	
7	whether or not it complies with Facebook's	
8	policies?	
9	MR. BENJAMIN: Objection to form.	
10	THE DEPONENT: In the context of scraping	04:47:22
11	more generally across the platform, yes.	
12	Is that	
13	Q. (By Ms. Weaver) And in at an even	
14	more high level, is there somebody responsible at	
15	Facebook for determining whether or not when	04:47:33
16	Facebook shares data with third parties, it is	
17	complying with Facebook's policies?	
18	A. Yes.	
19	Q. Who is that?	
20	A. Our our privacy org is part of that	04:47:45
21	assessment. An example would be Mike Clark.	
22	Q. Anyone other than Mr. Clark?	
23	MR. BENJAMIN: Objection to form and	
24	scope.	
25	THE DEPONENT: He he's he is the	04:48:02
		Page 304

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1	POC I know that that is involved in what it	04:48:04
2	sounds like you're getting at, which is access by	
3	third parties to data across Facebook.	
4	Q. (By Ms. Weaver) What does POC mean in	
5	this context?	04:48:18
6	A. I'm sorry.	
7	Point of contact.	
8	Q. Another person might think it means	
9	person of color.	
10	A. Yes, I realize once I said it.	04:48:26
11	Q. So Mike Clark is the lead person in the	
12	privacy organization responsible for enforcing	
13	whether or not Facebook's sharing of data with	
14	third parties complies with its policies; is that	
15	right?	04:48:43
16	MR. BENJAMIN: Objection to scope and	
17	form.	
18	THE DEPONENT: His team manages from	
19	my understanding, his team manages with how third	
20	parties if they have inappropriately accessed	04:49:01
21	data, as an example through the scraping UIDs that	
22	you've mentioned.	
23	Q. (By Ms. Weaver) And what is the name of	
24	his team?	
25	MR. BENJAMIN: Same objections.	04:49:14
		Page 305

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1	THE DEPONENT: I I'm actually not sure	04:49:14
2	the official name of his team.	
3	Q. (By Ms. Weaver) In addition to scraping,	
4	is his team the team that's responsible for	
5	determining if, for example, data shared with third	04:49:24
6	parties might allow users to be personally	
7	identified?	
8	MR. BENJAMIN: One moment.	
9	Objection to form and scope.	
10	THE DEPONENT: I I'm not sure of the	04:49:48
11	parameters of what you mean. I don't think that	
12	there is a singular POC that looks at that.	
13	We have our misuse, which is what I was	
14	explaining Mike Clark's team does. And then we	
15	also have the protections we've put in place within	04:50:06
16	ads to ensure that we don't provide identifiable	
17	information to advertisers.	
18	So I I do you mind clarifying what	
19	you're looking for that's distinct from those two.	
20	Q. (By Ms. Weaver) You understand that	04:50:21
21	protections are different than enforcement, right?	
22	A. Yes.	
23	Q. So I'm trying to find out who is who	
24	is responsible for enforcing that Facebook does not	
25	share identifiable information with third parties.	04:50:36
		Page 306

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1	MR. BENJAMIN: Objection.	04:50:42
2	Q. (By Ms. Weaver) Do you know who that is,	
3	if anyone?	
4	MR. BENJAMIN: Objection to form and	
5	scope.	04:50:46
6	THE DEPONENT: The access third parties	
7	have to our to data across Facebook is something	
8	Mike Clark's team evaluates.	
9	Q. (By Ms. Weaver) What's your	
10	understanding of the definition of personally	04:51:02
11	identifiable information?	
12	MR. BENJAMIN: Scope and form.	
13	THE DEPONENT: Something that is	
14	specifically tied to a user and uniquely tied to a	
15	user.	04:51:17
16	Q. (By Ms. Weaver) Do you have an	
17	understanding that actually personally identifiable	
18	information is anything that could be used to	
19	reasonably identify a person?	
20	MR. BENJAMIN: Objection to form and	04:51:30
21	scope. And to the extent it calls for legal	
22	conclusion.	
23	THE DEPONENT: I understand that's a	
24	definition that you presented and I I I	
25	understand what you mean.	04:51:41
		Page 307

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1	Q. (By Ms. Weaver) What is Facebook's	04:51:43
2	understanding of what it means when they promise	
3	that they will not provide personally identifiable	
4	information to advertisers?	
5	A. That we	04:51:56
6	MR. BENJAMIN: Objection objection to	
7	form and scope of this deposition.	
8	THE DEPONENT: That we don't provide	
9	information to advertisers so that they can	
10	understand who saw their ad.	04:52:08
11	Q. (By Ms. Weaver) And just, again, to	
12	address the scope, under topic 8 on page 3 of	
13	Exhibit 657 of the letter that Mr. Benjamin wrote	
14	me, topic 8 is the "type and purpose of Data and	
15	Information Facebook provided."	04:52:26
16	MR. BENJAMIN: Special Master	
17	MS. WEAVER: And it states that Ms. Leone	
18	will be prepared to discuss how Facebook tracks	
19	user data received from advertisers, its	
20	relationships and the ads placed, and tracks data,	04:52:44
21	if any, provided to advertisers.	
22	Q. (By Ms. Weaver) Going back to the	
23	question	
24	MR. BENJAMIN: Special Master, would you	
25	prefer that I respond outside the presence of the	04:52:54
		Page 308

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1	witness?	04:52:56
2	SPECIAL MASTER GARRIE: I I would,	
3	actually.	
4	Would be it okay, Ms. Leone, if you go to	
5	the breakout room for a few minutes.	04:53:02
6	THE DEPONENT: Yup.	
7	SPECIAL MASTER GARRIE: Say five	
8	minutes wait until your counsel comes and gets	
9	you.	
10	MR. BENJAMIN: Are we on the record?	04:53:20
11	SPECIAL MASTER GARRIE: Yup.	
12	MR. BENJAMIN: Thank you. Just to	
13	respond briefly to Counsel Weaver, Special Master.	
14	So the letter actually reads and the	
15	first bullet says the "Tracking of '[t]he type and	04:53:27
16	purpose of Data and Information Facebook'"	
17	receives.	
18	I believe Counsel Weaver only read the	
19	part after "Tracking."	
20	Moreover association and identification	04:53:37
21	of user info was, as you know, the subject of	
22	topic 4 and other 30(b)(6) testimony.	
23	So my scope objection was asserted in	
24	response to a question about I'll read it	
25	"What is Facebook's understanding of what it means	04:53:54
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1	when they promise that they will not provide	04:53:57
2	personal identifiable information to advertiser."	
3	I don't think that that relates to the	
4	tracking of the type and purpose of data and	
5	information Facebook receives. And, again,	04:54:07
6	plaintiffs have already taken two different	
7	30(b)(6) depositions on association identification	
8	under topic 4.	
9	SPECIAL MASTER GARRIE: Counsel Weaver,	
10	is there anything you want to put on the record?	04:54:21
11	MS. WEAVER: Sure.	
12	This witness has testified already at	
13	length that Facebook is not providing personally	
14	identifiable information. I'm trying to understand	
15	what she means when she said that on behalf of	04:54:33
16	Facebook.	
17	MR. BENJAMIN: I believe Ms. Leone has	
18	testified repeatedly that Facebook doesn't provide	
19	advertisers with user level data.	
20	SPECIAL MASTER GARRIE: User user	04:54:48
21	granular data, I think she used. Granular level,	
22	yeah.	
23	MR. BENJAMIN: Yeah. So, again,	
24	topic 8 and I just want to read the let's	
25	just start with reading what the letter actually	04:54:57
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1	says into the record.	04:54:59
2	It says that "Ms. Leone will be prepared	
3	to address:" the first bullet says the	
4	"Tracking of '[t]he type and purpose of Data and	
5	Information Facebook received.'"	04:55:07
6	Topic 8(a). That's the language that	
7	Counsel Weaver read in part.	
8	And she was asked to define a term,	
9	personally identifiable information, and I objected	
10	to it as being out of scope.	04:55:20
11	MS. WEAVER: That's what just happened.	
12	But three hours ago she spent a long time talking	
13	about how certain information does not identify the	
14	user, including geo location and all of the other	
15	categories.	04:55:32
16	I want to understand what Facebook the	
17	people in Facebook's advertising department, who	
18	are saying "We don't give third parties personally	
19	identifiable information," I am entitled to	
20	corporate testimony on what they mean when they say	04:55:45
21	that.	
22	SPECIAL MASTER GARRIE: All right. Is	
23	the witness prepared to well, before we get into	
24	the nits and nats of all this, is the witness	
25	prepared to answer the question on behalf of	04:55:56
		Page 311

# Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 313 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	Facebook or not?	04:55:59
2	MR. BENJAMIN: Which question	
3	specifically, Special Master?	
4	SPECIAL MASTER GARRIE: The one	
5	Counsel Weaver just asked that you objected to	04:56:04
6	that's outside of scope.	
7	MS. WEAVER: Let me let me, if I can,	
8	just let me read from 218, lines 3 through 10.	
9	"So the representation here is that	
10	Facebook is not providing any	04:56:25
11	personally identifiable information	
12	through the targeted advertising	
13	process, right?	
14	Objection to form. Vague.	
15	We don't provide advertisers	04:56:32
16	information about the users who saw	
17	their ad and how to identify those	
18	users."	
19	So she's made this assertion that's a	
20	shield for Facebook, and I just want to ask what	04:56:43
21	her understanding of personally identifiable	
22	information is.	
23	MR. BENJAMIN: That isn't the but that	
24	isn't the term that she used, and you've already	
25	taken two different 30(b)(6) depositions about this	04:56:53
		Page 312

# Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 314 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	topic.	04:56:57
2	MS. WEAVER: No, I have not. And, in	
3	fact, we'll get to it, but Mr. Clark refused to	
4	actually define the term.	
5	MR. BENJAMIN: She she's she's not	04:57:04
6	been designated to provide corporate testimony on	
7	Facebook's understanding of the meaning of	
8	personally identifiable information.	
9	MS. WEAVER: And here we are again. Of	
10	course we didn't enumerate every question we have	04:57:15
11	to we we were going to ask. The very	
12	question is, what data is Facebook giving to third	
13	parties. And is it identifiable.	
14	MR. BENJAMIN: That that is the	
15	MS. WEAVER: The next question is, are	04:57:30
16	you going to	
17	SPECIAL MASTER GARRIE: Wait, wait.	
18	Everybody is interpreting my my silence as a	
19	reason to talk. It's just I'm thinking. My	
20	apologies.	04:57:42
21	I guess the first question,	
22	Counsel Benjamin, is the witness prepared to answer	
23	the question on behalf of Facebook?	
24	MR. BENJAMIN: The witness was not	
25	designated to provide the company's position about	04:57:56
		Page 313

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1	the meaning of personally identifiable information.	04:57:58
2	SPECIAL MASTER GARRIE: I I understand	
3	that. That's not the question that's pending.	
4	MR. BENJAMIN: So I'm I'm just looking	
5	at it before we went we went into this colloquy,	04:58:10
6	Special Master, so I'll just I'll read it so	
7	we're all on the same page.	
8	One moment. Ms. Weaver, if you have it	
9	in front of you, I just want to make sure that	
10	we're discussing the same question.	04:58:36
11	"What is Facebook's understanding"	
12	this is line 12 "What is Facebook's	
13	understanding of what it means when they promise	
14	that will not provide personal identifiable	
15	information to advertiser?"	04:58:52
16	That was the question that to which I	
17	objected on form and scope. And then Ms. Weaver	
18	went to the bullet point in the letter that she	
19	read part of.	
20	SPECIAL MASTER GARRIE: I I'm very	04:59:07
21	aware and my question is, is Facebook is the	
22	witness prepared to answer the question on behalf	
23	of Facebook?	
24	MR. BENJAMIN: So I believe the question	
25	that's pending actually misstates the record.	04:59:36
		Page 314

# Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 316 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	So I I can't tell you, Special Master,	04:59:42
2	that she's prepared to answer that specific	
3	question because I think that it's objectionable in	
4	a number of ways.	
5	What she has said is that we don't	04:59:51
6	provide data to advertisers identifying individual	
7	users. She hasn't provided testimony based on a	
8	definition of personal of PII. So I she's	
9	very prepared to explain all the ways	
10	SPECIAL MASTER GARRIE: I just have a	05:00:09
11	simple so you I I understand you're	
12	objecting to the question and the form.	
13	My question is, the question as it is, is	
14	she prepared to answer the question on behalf of	
15	Facebook. Not the form of the question and not	05:00:24
16	whether it's just and then I can	
17	MR. BENJAMIN: Right. It's just yeah,	
18	I I think the answer, Special Master, is it's	
19	just not in scope. So	
20	MS. WEAVER: Okay. And I just want to go	05:00:37
21	on the record that	
22	SPECIAL MASTER GARRIE: We're still on	
23	the record.	
24	MS. WEAVER: Fair enough.	
25	SPECIAL MASTER GARRIE: So can I just	05:00:44
		Page 315

# Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 317 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	finish?	05:00:45
2	MS. WEAVER: Yes.	
3	SPECIAL MASTER GARRIE: Let let me	
4	just just finish here.	
5	That's fine, Counsel Benjamin. I just	05:00:48
6	so then before we go further, I want to be	
7	respectful of the witness' time and the effort that	
8	has been done.	
9	And if there's an issue about scope and	
10	other things, and the witness isn't prepared to	05:01:10
11	answer the question, Counsel Weaver, on behalf of	
12	Facebook I mean, we I mean, there's I'm	
13	not going to permit a line of questioning whether	
14	or not prepared to answer it.	
15	If so, if there are well,	05:01:26
16	Counsel Weaver, if you would like to respond on the	
17	record and then Counsel Benjamin rebuttal. And	
18	then I'll make the ruling quickly.	
19	MS. WEAVER: Okay.	
20	SPECIAL MASTER GARRIE: Counsel Weaver.	05:01:38
21	MS. WEAVER: Yes. We marked Exhibit 658	
22	a couple of hours ago. We covered the promise in	
23	this document there's a document identified by	
24	Facebook as a document that this witness would be	
25	prepared to testify. This is the second time this	05:01:50
		Page 316

# Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 318 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	has happened in this case.	05:01:53
2	That document says at page 5, "We don't	
3	share information with advertisers that personally	
4	identifies individuals unless they've given us	
		05 00 00
5	permission."	05:02:03
6	She then testified about this document.	
7	And when I asked, the representation here is that	
8	Facebook is not providing any personally	
9	identifiable information through the targeting	
10	the targeted advertising process, right.	05:02:16
11	And she said "We don't provide	
12	advertisers information about the users who saw	
13	their ad and how to identify those users."	
14	Now I'm trying to dig in, when we talk	
15	about enforcement, and all of a sudden she can't	05:02:28
16	define the words in the document that Facebook	
17	identified that she would be prepared to discuss	
18	with regard, very specifically, to what Facebook	
19	shares through the targeted advertising process.	
20	I think it's very clearly within scope.	05:02:42
21	And at some point we're going to bring a motion to	
22	compel Facebook to identify and define what	
23	personally identifiable information is in documents	
24	that they are identifying their witness as having	
25	knowledge of.	05:02:59
		Page 317

# Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 319 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	MR. BENJAMIN: Yeah, Special Master,	05:02:59
2	the the rebuttal is very short.	
3	I Counsel Weaver said it already.	
4	This this document itself was the subject of	
5	extensive testimony. Ms. Leone answered all the	05:03:08
6	questions she was asked about it. She didn't	
7	define personally identifiable information. The	
8	question that I read is clearly outside of scope.	
9	Plaintiffs have already taken two	
10	depositions on this subject. And we were very	05:03:21
11	clear about what Ms. Leone was designated to	
12	testify to in all of the prior meet-and-confers.	
13	So, again, I just want to be clear, what	
14	she has said consistently throughout this	
15	deposition is that Facebook doesn't provide	05:03:33
16	advertisers with user level data.	
17	And Counsel Weaver is should feel free	
18	to explore with her what that means. I was just	
19	lodging a scope objection to the specific question	
20	that was asked, which relies on a term that	05:03:48
21	Ms. Leone hasn't used and that isn't in the	
22	document that Counsel Weaver just pointed to.	
23	MS. WEAVER: It it is in the document.	
24	The word personally identifiable information is	
25	SPECIAL MASTER GARRIE: It's on page 5.	05:04:02
		Page 318

# Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 320 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	MS. WEAVER: Sorry.	05:04:03
2	SPECIAL MASTER GARRIE: I mean, it	
3	that word personal it is on page 5 of the	
4	document. I just read it myself. So that	
5	unless I'm reading a different document,	05:04:13
6	Counsel Benjamin, but	
7	MR. BENJAMIN: I was I was referring	
8	to the phrase "personal identifiable information or	
9	PII" which which we all understand can be a term	
10	of art.	05:04:25
11	So again	
12	SPECIAL MASTER GARRIE: Counsel Weaver.	
13	No, no, I heard I I understand,	
14	Counsel Benjamin.	
15	MR. BENJAMIN: Thank you.	05:04:38
16	SPECIAL MASTER GARRIE: Counsel Weaver.	
17	MS. WEAVER: I'm looking at just give	
18	me a moment here.	
19	What is the difference between	
20	information that personally identifies individuals	05:04:50
21	or personally identifiable information?	
22	Aren't I entitled to explore Facebook's	
23	understanding of that. The sentence says	
24	information that with advertisers that	
25	personally identifies individual. And if I ask	05:05:02
		Page 319

# Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 321 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	about personally identifiable information, Facebook	05:05:04
2	refuses to provide it. And this is the second	
3	time.	
4	In Mr. Clark's deposition, he said he	
5	needed to look at a document to give me testimony.	05:05:13
6	And when we gave it to him, it had this term it	
7	said had personally identifiable information in it	
8	and Facebook wouldn't provide a deposition.	
9	And now Ms. Leone is saying this is the	
10	guy that's responsible for enforcement. He doesn't	05:05:26
11	know what personally identifiable information is.	
12	Now I want to know if she does.	
13	I don't know how to get to the bottom of	
14	this case. I can bring a motion to compel to bring	
15	her back. I will. Somebody's got to be able to	05:05:38
16	answer that question before the close of discovery.	
17	MR. BENJAMIN: I'm sorry, Ms. Weaver. I	
18	didn't mean to step on your sentence. Just two	
19	very quick points.	
20	Number one, I think when Counsel Weaver	05:05:48
21	was actually examining Ms. Leone about the	
22	document, she asked her what that language meant.	
23	And that was appropriate, and I think that	
24	testimony was provided.	
25	If she puts the doc if she wants to	05:06:01
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# Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 322 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	put the document in front of Ms. Leone again and	05:06:02
2	ask her for Facebook's understanding of that	
3	language in the policy, maybe maybe that's a way	
4	to cut through this.	
5	All all I was reacting,	05:06:10
6	Special Master, was the	
7	SPECIAL MASTER GARRIE: No, no, I get it.	
8	I Counsel Benjamin, I understand. I get what	
9	you were reacting to. We've kind of gone off the	
10	rails a bit. I recognize that. I let you guys	05:06:19
11	speak, arguably too much.	
12	Not a reflection of your litigation	
13	prowess, it's just a little bit afield of what the	
14	objection had to do with.	
15	Counsel Weaver, with the information	05:06:44
16	that's been provided by Counsel Benjamin, you	
17	can the witness isn't prepared to testify on	
18	behalf of Facebook the way the question is phrased.	
19	If you want to rephrase the question and	
20	explore the topic further, it's perfectly	05:06:58
21	reasonable. If you wish to bring a motion to	
22	compel to get the definition of personal	
23	identifiable information from a Facebook designated	
24	representative, you are well within your rights.	
25	But this witness is prepared to testify on the	05:07:13
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# Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 323 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	topics and the question was asked.	05:07:17
2	So with that in mind, I ask consider	
3	it as a strong ask that you consider re	
4	rephrasing your question with the information	
5	that's been provided, recognizing that the witness	05:07:36
6	simply isn't prepared to testify on behalf of	
7	Facebook the way the question is being asked.	
8	MS. WEAVER: Okay.	
9	MR. BENJAMIN: Thank you, Special Master.	
10	SPECIAL MASTER GARRIE: That doesn't	05:07:52
11	just to for the record, that doesn't mean	
12	plaintiffs aren't entitled to a witness to answer	
13	or explain, if they feel that that information is	
14	critical or necessary to their case. But this	
15	witness	05:08:04
16	MS. WEAVER: I mean, the one thing I	
17	would say is if Facebook is providing documents to	
18	us with these terms in it, and then I ask about	
19	them and they tell me it's not within the scope	
20	I mean, do I have to go through every document that	05:08:13
21	has terms in it and identify now within the	
22	documents you better be able to talk about these	
23	terms?	
24	SPECIAL MASTER GARRIE: No	
25	MR. BENJAMIN: Yeah.	05:08:27
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1	SPECIAL MASTER GARRIE: I don't	05:08:27
2	think that's what's being	
3	MR. BENJAMIN: Yeah.	
4	SPECIAL MASTER GARRIE: I I think I	
5	think no. I mean, I at least not from where	05:08:29
6	I sit. But I would just the particular question	
7	you've asked and the way it was asked, I think if	
8	you reask the question using	
9	MS. WEAVER: Okay.	
10	SPECIAL MASTER GARRIE: that you	05:08:44
11	probably will make forward progress. I think	
12	Counsel Benjamin alluded to one possible approach	
13	to getting forward progress may or may not	
14	depending on on where we go.	
15	So we'll call the witness back,	05:08:59
16	Counsel Benjamin, and we'll keep going.	
17	MR. BENJAMIN: Thank you.	
18	THE COURT REPORTER: Can we just take	
19	can we take five?	
20	SPECIAL MASTER GARRIE: Yes, we can.	05:09:14
21	MS. WEAVER: And how much time do we have	
22	left?	
23	All right. Let's go off the record.	
24	THE VIDEOGRAPHER: Off the record. It's	
25	5:09 p.m.	05:09:20
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## Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 325 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	(Recess taken.)	05:09:21
2	THE VIDEOGRAPHER: We are back on the	
3	record. It's 5:19 p.m.	
4	Q. (By Ms. Weaver) Ms. Leone, I'll ask you	
5	to take a look at Exhibit 658.	05:19:43
6	A. I have it up.	
7	Q. And turning to the page we discussed	
8	earlier, on page 5.	
9	And there's a bullet point that says, "We	
10	don't share information with advertisers that	05:19:59
11	personally identifies individuals unless they've	
12	given us permission."	
13	Do you see that?	
14	A. Yes.	
15	Q. What is your understanding of information	05:20:07
16	that personally identifies individuals?	
17	A. In the context of ads, it's that we do	
18	not share with the advertiser who saw their ad so	
19	that they understand who that user was.	
20	Q. And when you say who "We do not share	05:20:23
21	who saw their ad," what do you mean?	
22	A. The user who saw their ad. We don't	
23	share the identity of that user with the	
24	advertiser.	
25	Q. Does Facebook share information that	05:20:38
		Page 324

## Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 326 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	enables third parties to identify the user?	05:20:41
2	MR. BENJAMIN: Objection to form.	
3	THE DEPONENT: No. As I mentioned, our	
4	product the protections in our product, such as	
5	the performance metrics, are aggregated so to avoid	05:20:58
6	an advertiser reassociating and trying to identify	
7	the user who saw the ad.	
8	Q. (By Ms. Weaver) And do you think that	
9	geo location is an example of information that	
10	personally identifies an individual?	05:21:15
11	MR. BENJAMIN: Objection to form.	
12	THE DEPONENT: In the context of ads, we	
13	don't share who viewed the ad or their location	
14	with an advertiser.	
15	Q. (By Ms. Weaver) But if an advertiser is	05:21:37
16	seeking to advertise within a one-mile radius	
17	and/or if they are using their own customer list,	
18	doesn't the advertiser know who the person is?	
19	MR. BENJAMIN: Objection to form and	
20	scope.	05:21:54
21	THE DEPONENT: No. They for example,	
22	if someone selects a radius or selects their	
23	location targeting, they don't know who sees the	
24	ad. We don't share the information with them about	
25	who's seeing the ad.	05:22:09
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1	Q. (By Ms. Weaver) Okay. So the then	05:22:11
2	your testimony on behalf of Facebook is that	
3	because Facebook is not sharing who saw the ad, it	
4	is not sharing information that personally	
5	identifies individuals; is that correct?	05:22:22
6	MR. BENJAMIN: Objection to form.	
7	Misstates.	
8	THE DEPONENT: We don't share information	
9	about who saw the ad to the advertiser so that they	
10	can identify that user.	05:22:37
11	Q. (By Ms. Weaver) I understand that you	
12	have to keep repeating the sentence, and I'm trying	
13	to drill in by on what you mean by who saw the	
14	ad.	
15	When you say "we don't identify who," do	05:22:45
16	you mean by name?	
17	A. I mean individual users. Their name is	
18	an example, similar to Lesley Weaver saw this ad.	
19	That is not what we share with advertisers.	
20	Q. Okay. Can you give me the full list of	05:23:00
21	what you think it is that Facebook does not share,	
22	such that it is not sharing information that	
23	personally identifies individuals?	
24	MR. BENJAMIN: Objection to form.	
25	THE DEPONENT: I I can't define	05:23:18
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1	everything we don't share. It's	05:23:20
2	Q. (By Ms. Weaver) Let me put it this way.	
3	What is that you think is information that	
4	personally identifies individuals?	
5	MR. BENJAMIN: Objection to form.	05:23:35
6	THE DEPONENT: In the context	
7	MR. BENJAMIN: Sorry. Objection to form	
8	and scope.	
9	I understand Counsel Weaver still to be	
10	examining you about Exhibit 658 and the language in	05:23:45
11	that document.	
12	You can answer.	
13	THE DEPONENT: In the context of ads,	
14	it's that we do not provide advertisers with	
15	information to understand who saw their ad,	05:23:56
16	specifically which users saw their ad.	
17	Q. (By Ms. Weaver) Give me the examples of	
18	the information that you just referred to in that	
19	answer.	
20	A. We don't in our as an example, in	05:24:15
21	our performance metrics, those are aggregated so	
22	that an advertiser doesn't know who specifically	
23	clicked or saw their ad.	
24	Q. I understand.	
25	I'm asking you a different question.	05:24:29
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1	What is the kind of information that you	05:24:31
2	think would personally identify an individual?	
3	MR. BENJAMIN: Objection to form. Asked	
4	and answered. Vague.	
5	THE DEPONENT: In the context of ads,	05:24:44
6	again, it's who saw your ad and which users those	
7	were, which would personally identify someone in	
8	the context of ads.	
9	Q. (By Ms. Weaver) So do you mean name, or	
10	email, or what is the kind I need examples of	05:24:55
11	the kind of information that you say would	
12	personally identify an individual.	
13	MR. BENJAMIN: Yeah.	
14	Q. (By Ms. Weaver) What do you mean?	
15	MR. BENJAMIN: Objection to form and	05:25:08
16	scope. And I'll just make a running objection for	
17	the sake of the record.	
18	And so as not to impede the deposition to	
19	this entire line of questioning, I understand	
20	Counsel Weaver to examining you about the language	05:25:19
21	within Exhibit 658 about information that	
22	personally identifies individuals.	
23	On that basis, you can answer.	
24	THE DEPONENT: As an example, we don't	
25	share with advertisers the person who saw the ad,	05:25:36
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1	which would include their name, their UID, or their	05:25:39
2	email, because that's not information we share with	
3	advertisers in delivering the ads that they've	
4	placed on Facebook.	
5	Q. (By Ms. Weaver) What about IP address?	05:25:51
6	Is that an example of information that could be	
7	used to personally identify an individual?	
8	MR. BENJAMIN: Same objections to form	
9	and scope.	
10	THE DEPONENT: It's not information we	05:26:05
11	share with an advertiser, as a starting point. In	
12	the context of ads again, it's not information	
13	we share with advertisers about who's seeing their	
14	ad.	
15	Q. (By Ms. Weaver) If a advertiser wants to	05:26:25
16	target IP addresses or geo location, in your	
17	understanding, could that be used to identify an	
18	individual?	
19	A. Our targeting options	
20	MR. BENJAMIN: Sorry, Bella.	05:26:39
21	Same objections.	
22	THE DEPONENT: Our targeting options	
23	aren't based on IP address. That's not a targeting	
24	option we offer.	
25	Q. (By Ms. Weaver) Okay. It is something	05:26:48
		Page 329

## Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 331 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	that you mentioned earlier today.	05:26:49
2	Do you recall that?	
3	A. To clarify, what I explained earlier was	
4	an advertiser selects where they want their ad to	
5	be shown. So if they want their ad to be shown to	05:27:01
6	people in Washington State. And then we use that	
7	to set the eligible audience for the ad.	
8	One of the ways someone can be included	
9	in it includes location, such as IP, based on their	
10	IP. That is not the same as giving the advertiser	05:27:21
11	the ability to select IP addresses to target.	
12	Q. And is it your understanding that	
13	information that can be used one or two data points	
14	together to identify a person would constitute	
15	information that personally identifies individuals?	05:27:43
16	MR. BENJAMIN: Same objection to form and	
17	scope, with respect to Exhibit 658.	
18	THE DEPONENT: I can understand what you	
19	mean about combining data points. I do not see the	
20	relevance of how that's happening within our ad	05:28:01
21	targeting or the information we provide back to	
22	advertisers, because we specifically don't provide	
23	information back to advertisers at the user	
24	at the individual or user level.	
25	Q. (By Ms. Weaver) On behalf of Facebook,	05:28:16
		Page 330

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		1
1	as you sit here today, is Facebook aware that	05:28:17
2	advertisers or AP developers were scraping UIDs	
3	via the platform API?	
4	MR. BENJAMIN: Objection to form. And	
5	asked and answered repeatedly. And scope.	05:28:35
6	THE DEPONENT: I think I clarified that	
7	I'm not aware of specific instances. It is not my	
8	role to be aware of specific instances of where	
9	scraping is occurring on the platform.	
10	Q. (By Ms. Weaver) Is Uber a partner who	05:28:55
11	advertises on Facebook using custom audiences?	
12	MR. BENJAMIN: Objection to form. Vague.	
13	THE DEPONENT: I I take it you mean	
14	Uber, like the ride share company?	
15	Q. (By Ms. Weaver) Yes.	05:29:14
16	A. I don't know the specific audiences or	
17	ways that they set up their ads on our platform.	
18	MS. WEAVER: Will you take a look at 663,	
19	please.	
20	(Exhibit 663 was marked for	05:29:29
21	identification by the court reporter and is	
22	attached hereto.)	
23	THE DEPONENT: Yes. I'm sorry. 662	
24	oh, -3. I see it.	
25	Q. (By Ms. Weaver) And take a moment to	05:29:32
		Page 331

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1	read it and let me know when you have.	05:29:33
2	A. This is going to take me a minute. I	
3	haven't seen this before.	
4	MS. WEAVER: No problem.	
5	MR. BENJAMIN: Counsel, was this a	05:29:51
6	document that was identified before the deposition?	
7	MS. WEAVER: No, it was not, because I	
8	did not expect the testimony that we got, and it's	
9	in for impeachment purposes.	
10	THE DEPONENT: I I've read through.	05:32:07
11	Q. (By Ms. Weaver) Who is Ian Abernathy?	
12	MR. BENJAMIN: Objection. Based on	
13	scope.	
14	And I'll assert that as a running	
15	objection to the questioning on this document.	05:32:17
16	THE DEPONENT: I don't know who	
17	Ian Abernathy is. I have not worked with him	
18	before.	
19	Q. (By Ms. Weaver) Do you know who	
20	Grace Molnar is?	05:32:25
21	A. No, I also don't know who Grace is.	
22	Q. Do you know who Allison Hendrix is?	
23	A. I do know Ali Hendrix.	
24	Q. Who is she?	
25	A. She's our data policy manager for our	05:32:36
		Page 332

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1	developer platform.	05:32:38
2	Q. Looking at Exhibit 663, do you understand	
3	it to be an email from people who work at Facebook	
4	relating to their work at Facebook?	
5	A. Yes.	05:32:53
6	Q. And looking at the lower email, do you	
7	see where Grace emailed Ian, "We have an escalation	
8	with Uber, who was creating a custom audience list	
9	of UIDs that were obtained via our API, but not by	
10	them. We're trying to determine where enforcement	05:33:10
11	should sit for things like this."	
12	Do you see that?	
13	A. Yes.	
14	Q. Have you ever been aware that Uber had	
15	created custom audience lists of UIDs, in or around	05:33:19
16	2013?	
17	A. No, I was not aware.	
18	Q. And Facebook does not maintain a list of	
19	advertisers who had scraped user IDs, correct?	
20	MR. BENJAMIN: Object, based on scope and	05:33:36
21	form.	
22	THE DEPONENT: To be clear, my	
23	understanding of this is not that Uber scraped	
24	these IDs.	
25	Q. (By Ms. Weaver) Okay. Do you have any	05:33:45
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1	personal knowledge of this particular issue?	05:33:47
2	A. I don't. Just from reading this	
3	document, I	
4	Q. Okay. But this is the point. This	
5	document suggests that Uber had a list of user IDs,	05:33:58
6	correct?	
7	A. Correct, that they specify were obtained	
8	through an API, but not by Uber.	
9	Q. Okay. And they were obtained through	
10	Facebook's API, right?	05:34:13
11	A. Through a platform API.	
12	Q. That is that is Facebook's platform	
13	API, correct?	
14	A. Yes, that's what this states.	
15	Q. Okay. And so Uber has a collection of	05:34:23
16	Facebook user IDs, according to this document,	
17	right?	
18	MR. BENJAMIN: Objection to form.	
19	Foundation. And the same continuing objection	
20	based on scope.	05:34:36
21	Q. (By Ms. Weaver) Was there any attempt by	
22	Facebook to prevent Uber from conducting targeted	
23	advertising because Facebook knows that Uber	
24	possesses user IDs?	
25	A. So, again, I'm I'm not familiar with	05:34:49
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this case. This is the first time I've seen it.	05:34:51
This email thread reads to me as that is exactly	
what's being discussed.	
Q. Right.	
But it didn't happen, did it?	05:35:00
I mean, you're in advertising and you	
testified that there is no list within the	
advertising department of advertisers on Facebook	
who possess the user IDs, right?	
A. No. I specifically	05:35:16
MR. BENJAMIN: Objection. Objection.	
Misstates testimony.	
THE DEPONENT: I specifically noted,	
first, that Uber was not scraping. That's	
that's specified here. And we there they	05:35:27
wouldn't this I I think that's the answer.	
Uber was	
Q. (By Ms. Weaver) Uber wasn't talking	
about scraping. I'll read the question back.	
You testified that there is no list	05:35:39
within the advertising department of advertisers on	
Facebook who possess user IDs, right?	
MR. BENJAMIN: Same objection.	
THE DEPONENT: Do you mind reading back	
the testimony that you're referring to.	05:35:54
	Page 335
	This email thread reads to me as that is exactly what's being discussed.  Q. Right.  But it didn't happen, did it?  I mean, you're in advertising and you testified that there is no list within the advertising department of advertisers on Facebook who possess the user IDs, right?  A. No. I specifically  MR. BENJAMIN: Objection. Objection.  Misstates testimony.  THE DEPONENT: I specifically noted, first, that Uber was not scraping. That's  that's specified here. And we there they wouldn't this I I think that's the answer.  Uber was  Q. (By Ms. Weaver) Uber wasn't talking about scraping. I'll read the question back.  You testified that there is no list within the advertising department of advertisers on Facebook who possess user IDs, right?  MR. BENJAMIN: Same objection.  THE DEPONENT: Do you mind reading back

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1	Q. (By Ms. Weaver) I'll just ask you.	05:35:56
2	Within the advertising department, is	
3	there a list of advertisers on Facebook that	
4	Facebook knows has come into possession of user	
5	IDs?	05:36:07
6	MR. BENJAMIN: Objection to form and	
7	scope.	
8	THE DEPONENT: I'm I'm I'm not sure	
9	like a a list of advertisers that have access	
10	to UID or have obtained UIDs is not a list that	05:36:47
11	I'm aware of within ads because I I I'm not	
12	sure the connection there back to the fact that	
13	they're an advertiser.	
14	Q. (By Ms. Weaver) Does Facebook have any	
15	way to prevent advertisers who Facebook knows	05:37:06
16	possesses possesses user IDs from advertising on	
17	Facebook?	
18	MR. BENJAMIN: Objection to form. Asked	
19	and answered.	
20	THE DEPONENT: The possession of an ad	05:37:24
21	the possession of UIDs by an advertiser is isn't	
22	a factor in in I that's not an evaluation	
23	in the creation of an ad. I'm not I'm not sure	
24	the connection here.	
25	Q. (By Ms. Weaver) Does Facebook take any	05:37:50
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1	steps to prevent companies that Facebook knows	05:37:53
2	possesses user IDs from targeting those users	
3	through Facebook's advertising platform?	
4	MR. BENJAMIN: Same same objections.	
5	THE DEPONENT: I think this is an example	05:38:08
6	where, like in this email thread, they are	
7	discussing the steps that need to be taken here.	
8	I am not aware of what happened with Uber	
9	that I'm not sure the resolution on in this	
10	one.	05:38:24
11	Q. (By Ms. Weaver) And you, in the	
12	advertising privacy policy team, have never seen a	
13	list of advertisers who possess user IDs or used it	
14	for the purposes of saying you may not advertise	
15	because you will be sharing infor you will be	05:38:34
16	able to personally target individual users; is that	
17	true?	
18	MR. BENJAMIN: Objection to form.	
19	THE DEPONENT: I I don't know of any	
20	other cases aside from the one that you've	05:38:55
21	presented currently.	
22	Q. (By Ms. Weaver) Does Uber currently	
23	advertise on Facebook?	
24	MR. BENJAMIN: Objection.	
25	THE DEPONENT: I don't know the full list	05:39:10
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1	of advertisers who advertise on Facebook. I	05:39:11
2	I at some points Uber definitely did advertise	
3	and in recent years.	
4	Q. (By Ms. Weaver) Okay. Are you prepared	
5	to testify about targeted advertisements that take	05:39:28
6	the form of videos?	
7	A. Yes.	
8	Q. How do targeted advertisements take the	
9	form of videos?	
10	A. When an advertisers sets up their ad	05:39:42
11	one second.	
12	(Brief interruption.)	
13	THE DEPONENT: When an advertiser sets up	
14	their ad, they choose the the creative for their	
15	ad. That includes choosing if it's going to be an	05:40:06
16	image or a video and the format. And then they	
17	would upload the video that they want to use for	
18	their ad.	
19	Q. (By Ms. Weaver) And Facebook then takes	
20	the video and provides that video to the users, is	05:40:22
21	that right, on its platform?	
22	A. As in the case of all ads, it then enters	
23	the auction. And if it wins the auction, we will	
24	show that ad that has the video content in our	
25	newsfeed to users.	05:40:41
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		I I

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1	Q. So Facebook isn't creating the videos; is	05:40:43
2	that right?	
3	A. The advertiser selects the video and	
4	creates the video.	
5	Q. And then Facebook's responsibility is to	05:40:51
6	take the video and provide it to the user; is that	
7	right?	
8	MR. BENJAMIN: Objection to form.	
9	THE DEPONENT: We deliver the ad to	
10	users, yes.	05:41:03
11	Q. (By Ms. Weaver) And the ad is in video	
12	form, right?	
13	MR. BENJAMIN: Objection to form.	
14	THE DEPONENT: By video by video form,	
15	we just mean it is an ad that has a video in it?	05:41:12
16	Q. (By Ms. Weaver) Yes.	
17	A. Yes. Then we show a user that ad, which	
18	involves showing them the video.	
19	Q. And then does Facebook report back to the	
20	advertiser information about whether or not those	05:41:32
21	videos were obtained or received?	
22	MR. BENJAMIN: Objection to form.	
23	THE DEPONENT: Do you mind clarifying	
24	what you mean by obtained or received.	
25	Q. (By Ms. Weaver) Do you understand what	05:41:48
		Page 339

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1		
1	the word "obtained" means?	05:41:48
2	A. I understood to I I understood it	
3	to mean removing it from the platform, and I don't	
4	think that's what you mean. So I want to be	
5	sure	05:42:00
6	Q. Okay.	
7	A I'm following.	
8	Q. Let's try this, what about receive?	
9	Do you know what receive means?	
10	A. Received by the users?	05:42:06
11	Q. Yes.	
12	A. Yes. The users so, again, the ad	
13	enters the ad auction. If it is delivered to a	
14	user, the user will see it. That's what I'm	
15	defining as received. They saw the ad.	05:42:18
16	Q. And then Facebook reports the view of	
17	that video back to the advertisers; is that	
18	correct?	
19	A. We report the aggregated number of views	
20	a video a video ad gets, correct.	05:42:31
21	Q. Okay. What is audience network?	
22	A. Audience network was a effectively an	
23	ad exchange owned by Facebook that would enable us	
24	to place an ad on third-party sites and website	
25	third-party websites and apps.	05:42:52
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1	Q. And Facebook was placing the ad on the	05:42:56
2	third-party websites, and was it then compensated	
3	for placing the ad?	
4	MR. BENJAMIN: Objection to form.	
5	THE DEPONENT: As with all ads, the	05:43:15
6	advertiser pays for the ad. And that was also true	
7	with audience network placements.	
8	Q. (By Ms. Weaver) And in this case, the	
9	advertiser is Facebook; is that right?	
10	A. No.	05:43:26
11	MR. BENJAMIN: Objection to form.	
12	Q. (By Ms. Weaver) Okay. Facebook is	
13	placing the ad on behalf of an advertiser; is that	
14	right?	
15	MR. BENJAMIN: Objection to form.	05:43:38
16	THE DEPONENT: It's a similar concept as	
17	placing an ad on Facebook, the advertiser creates	
18	the ad and chooses the audience. Facebook dis	
19	on on our platform, we display it here. We send	
20	it to a publisher, so the website or app, and they	05:43:54
21	display the ad.	
22	Q. (By Ms. Weaver) So is Facebook involved	
23	in pulling together targeted interests or behaviors	
24	for the creation of ads in audience network?	
25	A. No.	05:44:16
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1	MR. BENJAMIN: Objection to sorry,	05:44:17
2	Bella.	
3	Objection to form. Compound. Vague.	
4	THE DEPONENT: No. The creation of an ad	
5	that goes on an audience network is the same as the	05:44:26
6	creation of an ad on Facebook. The advertiser	
7	selects their desired audience through our	
8	targeting options. The same ones that we covered.	
9	The our role in the audience network	
10	portion is in place is in in I think	05:44:43
11	"placing" is maybe confusing us is in that ad	
12	going to a third-party website rather than on our	
13	platform to be displayed to a user.	
14	Q. (By Ms. Weaver) And then does Facebook	
15	track performance measurements and report that back	05:45:01
16	to the advertiser?	
17	MR. BENJAMIN: Objection to form.	
18	THE DEPONENT: Similar to an ad that we	
19	display on our own site, an advertiser would know	
20	the aggregated performance metrics of that ad.	05:45:15
21	Q. (By Ms. Weaver) Are you aware of	
22	performance measurements provided to Salesforce at	
23	Oracle that were different than the kinds of	
24	performance measurements provided ordinarily to	
25	to advertisers?	05:45:35
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1	MR. BENJAMIN: Objection to form.	05:45:39
2	THE DEPONENT: In the can you clarify,	
3	in the sense of like were Salesforce and Oracle	
4	advertisers?	
5	Q. (By Ms. Weaver) Yes.	05:45:49
6	A. And did we provide them with different	
7	metrics?	
8	Q. Yes.	
9	A. No.	
10	Q. Over time, with regard to the performance	05:46:22
11	metrics provided by Facebook to advertisers, what	
12	are examples of metrics that are provided today	
13	that were not provided in the past?	
14	A. As an example I'm sorry, Matt. I keep	
15	jumping.	05:46:45
16	When a new ad format is introduced, such	
17	as video ads, were not a type of ad that we had	
18	originally, we then also introduced the relevant	
19	performance metric of like aggregate views of that	
20	video, which wouldn't have existed prior to a video	05:47:03
21	ad.	
22	Q. Can you think of any other examples that	
23	were added over time with regard to performance	
24	measurements or metrics provided to advertisers?	
25	MR. BENJAMIN: Objection to form.	05:47:18
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1	THE DEPONENT: Ad score is an example	05:47:20
2	that has been something we've added in over time.	
3	Q. (By Ms. Weaver) When was ad score added?	
4	A. I don't know the exact date. But from	
5	2016 onwards, I believe.	05:47:33
6	Q. Any other examples you can think of?	
7	A. I can't think of any other examples more	
8	specifically on a timeline.	
9	Q. What is conversion tracking?	
10	A. Conversion tracking is a way to	05:47:57
11	understand who subsequently bought an ad or or	
12	converted on the product.	
13	Q. Does Facebook provide that information to	
14	advertisers?	
15	A. That works in conjunction with our	05:48:14
16	business tools.	
17	Q. Okay. Does Facebook provide that	
18	information to advertisers through their business	
19	tools?	
20	A. We so for an ad that's that's a	05:48:25
21	conversion ad, an advertiser sets up the Pixel and	
22	they are able to understand the conversions from	
23	that ad.	
24	Q. And when you say "the advertiser sets up	
25	the Pixel" do you mean to imply that's the	05:48:43
		Page 344

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1	advertiser that is tracking the conversion or is	05:48:47
2	it	
3	A. Yes.	
4	Q just as well through the Pixel?	
5	MR. BENJAMIN: Objection to form.	05:48:56
6	THE DEPONENT: The advertiser sets up the	
7	Pixel. Facebook also receives the information from	
8	the Pixel.	
9	Q. (By Ms. Weaver) And what specifically is	
10	the information that the Pixel collects with regard	05:49:08
11	to conversion tracking?	
12	A. Pixel collects two categories of	
13	information. One is contact information, which is	
14	a form of identifier and event. The event is	
15	something the advertiser defines. In this case	05:49:25
16	it's a conversion. And they choose the information	
17	to send back about that event.	
18	Q. And for the record, can you define	
19	conversion?	
20	A. Conversion is is is the the end	05:49:41
21	of the marketing funnel. It's when someone buys	
22	the product or service being advertised.	
23	Q. Is it always a purchase or can it also be	
24	just a desired action?	
25	MR. BENJAMIN: Objection to form.	05:50:03
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1	THE DEPONENT: Desired action is	05:50:06
2	particularly broad because advertisers usually have	
3	a desired action with any ad they're placing.	
4	So so in the sense of you create an ad with a	
5	like page objective to try and get people to like	05:50:16
6	your page.	
7	So conversions are are most closely to	
8	take a very specific like buying or or or	
9	it is the the the end of the funnel that	
10	someone has completed, the marketing funnel.	05:50:36
11	Q. (By Ms. Weaver) Could we say a	
12	conversion marks completion of a business	
13	objective?	
14	MR. BENJAMIN: Objection to form.	
15	THE DEPONENT: The I don't think	05:50:46
16	that's inaccurate. I don't know that that's	
17	exactly how we would describe it. But that	
18	that I'm fine with that description.	
19	Q. (By Ms. Weaver) Okay. Are you familiar	
20	with something called an ad console?	05:51:05
21	A. No, not not immediately.	
22	Do you mind walking me through what your	
23	reference is.	
24	Q. Yeah.	
25	Is there something internally that the	05:51:24
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advertising team sees about ad campaigns that is  not provided to the advertiser?  MR. BENJAMIN: Objection to form and  scope.  THE DEPONENT: An advertising team being 05:51:43  like the sales team associated with an advertiser  or  Q. (By Ms. Weaver) Yes.  A. I there are internal tools that our  sales team uses. I do not I I don't know if 05:52:01  that's specifically ad console that that is  what if that's what it's named.  Q. Okay. What is an ECTR?  A. The estimated click-through rate.  Q. And how is that calculated? 05:52:23  A. The ECTR is part of the machine learning,  the estimated action rate that's a similar concept.  So it's the likelihood I'm sorry. One moment.  I I want to be sure I'm also not confusing  acronyms here. 05:52:49  MS. WEAVER: No problem.  THE DEPONENT: I I I apologize. I  don't want to misstate on the definition of or  how we create the estimated click-through rate.  Q. (By Ms. Weaver) Who would know? 05:53:12			
MR. BENJAMIN: Objection to form and  scope.  THE DEPONENT: An advertising team being 05:51:43  like the sales team associated with an advertiser  or  Q. (By Ms. Weaver) Yes.  A. I there are internal tools that our  sales team uses. I do not I I don't know if 05:52:01  that's specifically ad console that that is  what if that's what it's named.  Q. Okay. What is an ECTR?  A. The estimated click-through rate.  Q. And how is that calculated? 05:52:23  A. The ECTR is part of the machine learning,  the estimated action rate that's a similar concept.  So it's the likelihood I'm sorry. One moment.  I I want to be sure I'm also not confusing  acronyms here. 05:52:49  MS. WEAVER: No problem.  THE DEPONENT: I I I apologize. I  don't want to misstate on the definition of or  how we create the estimated click-through rate.	1	advertising team sees about ad campaigns that is	05:51:27
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	23	don't want to misstate on the definition of or	
Q. (By Ms. Weaver) Who would know? 05:53:12	24	how we create the estimated click-through rate.	
	25	Q. (By Ms. Weaver) Who would know?	05:53:12
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1	A. Our ad measurement team would know.	05:53:16
2	Q. Who's in the ad measurement team?	
3	A. An example is Toby Roessingh.	
4	Q. R-O-S-I-N-G?	
5	A. It's in his last name one second.	05:53:33
6	I can spell this.	
7	R-O-E-S-S-I-N-G-H.	
8	Q. Is he the lead on the ad measurement	
9	team?	
10	MR. BENJAMIN: Objection to form and	05:54:04
11	scope.	
12	THE DEPONENT: I'm not sure his exact	
13	position, but he is on ads measurement.	
14	Q. (By Ms. Weaver) Anyone else you can	
15	think of?	05:54:16
16	MR. BENJAMIN: Same objections.	
17	THE DEPONENT: No, he's he's a point	
18	of contact that I use for the ads measurement team.	
19	Q. (By Ms. Weaver) Okay. What is CPC?	
20	A. Cost per click.	05:54:35
21	Q. And what is CPM?	
22	A. CPM stands for cost per meal, which is	
23	cost per 1,000 impressions.	
24	Q. And does Facebook provide to advertiser,	
25	following a campaign, the metrics that include	05:54:54
		Page 348

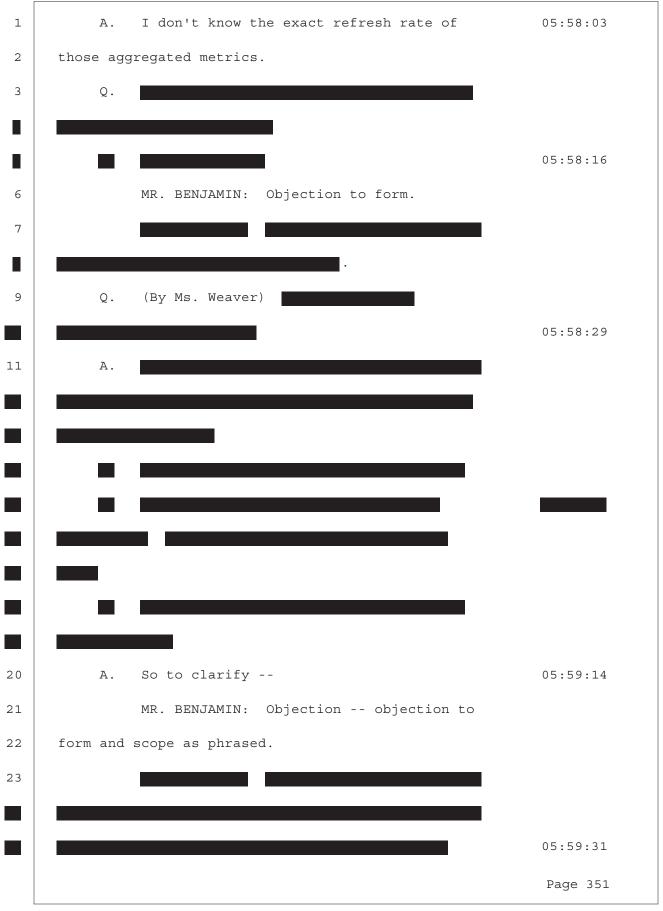
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1	clicks, impressions, CPM, CPC and CTR?	05:54:58
2	A. Do you mean for those are those are	
3	aggregated metrics that we provide to advertisers.	
4	Q. Does Facebook also provide revenue	
5	information?	05:55:15
6	A. Revenue is or like related to us. We	
7	provide the advertiser with their ad spend. How	
8	much they spent on that ad.	
9	Q. And then does Facebook provide something	
10	called value to advertisers?	05:55:31
11	A. We do provide a metric called value.	
12	Q. And what is value?	
13	A. How we calculate value is something that	
14	I I'm afraid I will misrepresent.	
15	Q. But Facebook does calculate value, right?	05:56:01
16	A. We so	
17	MR. BENJAMIN: Objection objection to	
18	form.	
19	THE DEPONENT: We provide a metric	
20	called or part of performance is is a metric	05:56:14
21	called value.	
22	Q. (By Ms. Weaver) And it's the value of	
23	what?	
24	A. I'm not certain. And I don't want to	
25	misrepresent what it stands for.	05:56:25
		Page 349

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1	Q. Who would know?	05:56:27
2	A. Again, Toby.	
3	Q. What is ego value?	
4	(Court Reporter asks for clarification.)	
5	MS. WEAVER: Ego value. E-G-O V-A-L-U-E.	05:56:30
6	THE DEPONENT: I'm not certain. I	
7	I I I'm not familiar with that just yeah.	
8	Q. (By Ms. Weaver) Does Facebook provide	
9	real-time ads metrics to advertisers?	
10	MR. BENJAMIN: Objection to form.	05:57:05
11	THE DEPONENT: Can you clarify, for	
12	real-time, do you mean as soon as an action happens	
13	on an ad?	
14	Q. (By Ms. Weaver) I mean, I I don't	
15	know. I don't work at Facebook.	05:57:16
16	But what does real-time mean at Facebook?	
17	MR. BENJAMIN: Objection to form.	
18	THE DEPONENT: We so we provide as	
19	an ad begins to run, we provide the aggregated	
20	metrics performance metrics. Those aren't like	05:57:34
21	a minute-by-minute updated. So it's that's what	
22	we mean by real-time is it's not how those metrics	
23	are shared with advertisers.	
24	Q. (By Ms. Weaver) How about a five-minute	
25	level granularity, is that shared with advertisers?	05:57:49
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1		
		05:59:46
6	Q. (By Ms. Weaver) Okay. What are QRT	
7	experiments?	
8	A. Those aren't specific to to ads. A	
9	QRT is to effectively understand the change when we	
10	launch something. So if we see as an example,	06:00:06
11	we might as I'm a probably silly example.	
12	In ads manager, if we switched the order	
13	of something, we might run a QRT where some	
14	advertisers are in one group and other advertisers	
15	are in another group to understand if there is a	06:00:29
16	difference between the the groups and the new	
17	UIs. So to understand if there's an impact to how	
18	they engage with our tools.	
19	Q. And what does QRT stand for, do you know?	
20	A. I don't know.	06:00:48
21	MR. BENJAMIN: Objection objection to	
22	form and scope.	
23	THE DEPONENT: This is probably a a	
24	problem at Facebook where we use acronyms without	
25	ever learning the the full wording.	06:00:56
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1	I'm not sure I'm not sure what the	06:00:57
2	full name is or what it stands for.	
3	Q. (By Ms. Weaver) So do QRT experiments	
4	generates ad-specific metrics that are useful to	
5	Facebook in figuring out how best to target users?	06:01:11
6	MR. BENJAMIN: Objection to form.	
7	THE DEPONENT: No. A QRT is about	
8	creating like a production environment that we can	
9	understand if it's different from different	
10	production environment. It's not a method to	06:01:36
11	target users for ads. That is still established by	
12	our targeting tools that advertisers choose.	
13	Q. (By Ms. Weaver) What's a production	
14	environment?	
15	MR. BENJAMIN: Objection.	06:02:00
16	Is anyone else hearing an echo?	
17	THE COURT REPORTER: Yes.	
18	THE DEPONENT: No.	
19	MS. WEAVER: I'm having an echo, too.	
20	THE COURT REPORTER: It's been happening	06:02:08
21	for a while.	
22	MR. BENJAMIN: Do you want to go off the	
23	record?	
24	THE COURT REPORTER: Sure.	
25	MS. WEAVER: I mean, I'd rather continue	06:02:16
		Page 353

## Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 355 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	with the dep.	06:02:17
2	How much time do we have left?	
3	THE VIDEOGRAPHER: About 18 minutes.	
4	(Court Reporter initiates discussion off	
5	the stenographic record.)	06:03:10
6	Q. (By Ms. Weaver) Okay. Back to, what is	
7	a production environment?	
8	A. That was my way of explaining that	
9	we're we've created two versions of a UI for	
10	users who or or in this in the example I	06:03:41
11	gave, advertisers to interact with.	
12	It's just a a live part of our site.	
13	I'm not sure if that's like a technical term that	
14	would be used. But that's what I was describing.	
15	Q. Are you familiar with something called	06:03:55
16	deltoid?	
17	MR. BENJAMIN: Objection to form.	
18	THE DEPONENT: Not super specific to ad	
19	targeting or ad ranking. Deltoid, from my	
20	understanding, is how we help measure when a QRT is	06:04:13
21	running the differences in metrics from that	
22	effectively those two environments, the two	
23	versions that we we have running.	
24	Q. (By Ms. Weaver) And what do you mean by	
25	the "differences in metrics"?	06:04:29
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1	A. So going back to the example if that I	06:04:34
2	was using of advertisers maybe we switched the UI	
3	in one version to understand if it's an easier UI	
4	for them to use. I mean, one thing would be like	
5	ad creation. Do we see similar rates of ad	06:04:47
6	creation when we make that change.	
7	Q. Got it.	
8	So does Facebook provide to third parties	
9	ad market daily metrics?	
10	MR. BENJAMIN: Objection to form	06:05:11
11	Q. (By Ms. Weaver) Is that something that	
12	Facebook maintains internally.	
13	MS. WEAVER: Sorry about that, Matt.	
14	MR. BENJAMIN: Excuse me, Ms. Weaver.	
15	Apologize.	06:05:17
16	Objection to form and scope.	
17	THE DEPONENT: I'm sorry. I missed the	
18	very beginning of your question.	
19	Q. (By Ms. Weaver) Does Facebook provide to	
20	third parties ad market daily metrics?	06:05:30
21	MR. BENJAMIN: Same objections.	
22	THE DEPONENT: No. My understanding is	
23	that that's an internal table of ad performance and	
24	metrics.	
25	Q. (By Ms. Weaver) And does Facebook	06:05:51
		Page 355

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1	maintain per impression logging with revenue	06:05:52
2	information for ads?	
3	MR. BENJAMIN: Objection to scope.	
4	THE DEPONENT: We we maintain	
5	something called ads impressions annotated, which	06:06:08
6	is an impression login table. To be clear, I don't	
7	think it's revenue-based. Revenue, again, is more	
8	specific to us rather than ad spend from the	
9	advertiser.	
10	Q. (By Ms. Weaver) And does Facebook share	06:06:24
11	data from the ads impressions annotated with third	
12	parties?	
13	MR. BENJAMIN: Objection to form and	
14	scope as phrased.	
15	THE DEPONENT: No. We share the	06:06:40
16	aggregated impression information in like our	
17	our ads manager performance metrics, not the table.	
18	Q. (By Ms. Weaver) And where is that	
19	aggregated impression information maintained at	
20	Facebook?	06:06:57
21	MR. BENJAMIN: Objection to form and	
22	scope.	
23	THE DEPONENT: It it is read from our	
24	data basis. It's read from the tables, but	
25	aggregated for to display to in our UI.	06:07:10
		Page 356

## Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 358 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	Q. (By Ms. Weaver) I'm sorry.	06:07:16
2	A. No, no.	
3	Q. When you say "read from our databases,"	
4	which databases do you mean specifically?	
5	A. The the back end here, I I	06:07:31
6	were this isn't specific to ads. I'm not I'm	
7	not sure if like our ads reporting UI reads it from	
8	Hive specifically, in which case it would be the	
9	ads impressions annotated or	
	which is where like the production site	06:07:59
11	is run from.	
12	Q. Is there data contained which is	
13	shared with third parties?	
14	MR. BENJAMIN: Objection to form and	
15	scope.	06:08:25
16	THE DEPONENT: Can you do you mind	
17	clar clarifying. Do you mean such as like the	
18	tables   Tab	
19	Q. (By Ms. Weaver) Yes.	
20	MR. BENJAMIN: Same objection.	06:08:34
21	THE DEPONENT: So within the context of	
22	ads, we don't share the tables with third	
23	parties.	
24	Q. (By Ms. Weaver) But do you share	
25	information contained in the tables	06:08:44
		Page 357

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1	some some portion of it with advertisers?	06:08:48
2	MR. BENJAMIN: Objection to form. Asked	
3	and answered.	
4	THE DEPONENT: Our ad reporting metrics,	
5	the ones we've discussed, the aggregated ones, such	06:09:01
6	as in ads manager, I'm not certain if those come	
7	from Hive, if that's an aggregation that's there.	
8	But that would be an example of where conceptually	
9	that might happen.	
10	But, again, it's about it's backing	06:09:16
11	the aggregated metrics that we provide to an	
12	advertiser.	
13	Q. (By Ms. Weaver) What's the difference	
14	between a raw and a legal impression?	
15	MR. BENJAMIN: Objection to form and	06:09:30
16	scope.	
17	THE DEPONENT: A legal impression is an	
18	impression that we that is charged to the	
19	advertiser. A a raw impression is not always a	
20	legal impression.	06:09:48
21	Q. (By Ms. Weaver) How does Facebook decide	
22	what is a legal impression?	
23	MR. BENJAMIN: Objection to form and	
24	scope.	
25	THE DEPONENT: This this is within ads	06:09:58
		Page 358

# Case 3:18-md-02843-VC Document 1038-14 Filed 09/01/22 Page 360 of 450 CONFIDENTIAL - PURSUANT TO THE PROTECTIVE ORDER

1	measurement. An example from from my knowledge	06:10:00
2	is if we if we show an ad multiple or if an	
3	ad I'm trying to explain how how how I	
4	remember this.	
5	If if an example of a raw	06:10:28
6	impression is that does is not a legal	
7	impression, because legal impressions are a subset	
8	of those, would be if an ad is shown to a user	
9	potentially repeatedly, and it was not it wasn't	
10	supposed to be. So it's if an indication of	06:10:46
11	potentially like a mis-delivery on our side and so	
12	we don't charge the advertiser for it.	
13	Beyond that, I don't know all the cases.	
14	That would be something that our ads measurement	
15	would cover.	06:10:59
16	Q. (By Ms. Weaver) Are you aware of a table	
17	that logs per user daily key revenue metrics with	
18	ads revenue?	
19	MR. BENJAMIN: Objection to form and	
20	scope.	06:11:12
21	THE DEPONENT: No.	
22	Q. (By Ms. Weaver) So are you familiar with	
23	a log called	
25	MR. BENJAMIN: Same objections.	06:11:26
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1	THE DEPONENT: I'm I'm not familiar	06:11:31
2	with all of the data in that table or if it	
3	reflects revenue per user. That's not something we	
4	calculate.	
5	Q. (By Ms. Weaver) Do you know if are	06:11:49
6	you familiar with a log	
7		
10	MR. BENJAMIN: Objection to form. And	06:12:04
11	foundation and scope.	
12	THE DEPONENT: I don't know the details	
13	of the columns of that	
14	Q. (By Ms. Weaver) Is there a person whose	
15	responsibility is to track revenue tied on a user	06:12:15
16	basis?	
17	A. No. We don't track revenue on a user	
18	basis.	
19	Q. And when you say "we don't," you mean	
20	currently Facebook doesn't do that?	06:12:39
21	MR. BENJAMIN: Objection to form and	
22	scope on this line.	
23	THE DEPONENT: We don't track per user	
24	how much the revenue we've gained from that user	
25	is what I mean.	06:13:00
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1	Q. (By Ms. Weaver) Okay. With regard to 06:13:02	
2	conversions, are you familiar with something called	
3	an RSVP?	
4	MR. BENJAMIN: Objection to scope.	
5	THE DEPONENT: No. I might need some 06:13:14	
6	some narrowing or clarification.	
7	MS. WEAVER: Sadly, I don't have any.	
8	Okay. I think we can go off the record	
9	quickly.	
10	How much time do we have left? 06:13:36	
11	THE VIDEOGRAPHER: It's let's see off	
12	the record, we have about seven or eight minutes	
13	left.	
14	MS. WEAVER: Great. Thank you.	
15	THE VIDEOGRAPHER: Okay. And we're off 06:13:52	
16	the record. It's 6:13 p.m.	
17	(Recess taken.)	
18	THE VIDEOGRAPHER: We're back on record.	
19	It's 6:28 p.m.	
20	Q. (By Ms. Weaver) Ms. Leone, just a or 06:28:11	
21	Leone just a few more questions.	
22	You testified that CPC is a metric that	
23	refers to cost per click.	
24	Do you recall that?	
25	A. Yes. 06:28:21	
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1	Q. Can it also	06:28:23
2	MS. WEAVER: You know, it sounds like	
3	this echo is me. Let me try	
4	Q. (By Ms. Weaver) Can it also refer to a	
5	type of that advertisers can where they pay	06:28:32
6	each time a user clicks on the ad?	
7	A. I'm sorry. That came in and out	
8	continuously.	
9	MS. WEAVER: Hello. I just went back to	
10	the other mic.	06:28:46
11	Q. (By Ms. Weaver) Okay. Can CPC also	
12	refer to a type of bidding that advertisers can	
13	choose where they pay each time a user clicks on	
14	the ad?	
15	A. It is is a bidding strategy that they	06:28:58
16	can select when they set up their ad.	
17	Q. And is reach the number of users who	
18	receive an ad?	
19	A. Reach is the number of accounts that	
20	that that see an ad, yes. I I think that	06:29:16
21	we're saying the same thing.	
22	Q. And unique accounts?	
23	A. Unique accounts.	
24	Q. What is frequency?	
25	A. Together reach and frequency are a type	06:29:30
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1	of of a mechanism of brand awareness where we	06:29:40
2	will try to to to optimize the ad to reach a	
3	large number of people or reach many people and	
4	multiple times with an ad so they familiarize	
5	themselves with that brand.	06:29:52
6	Q. So is reach frequency the number of times	
7	a user is exposed to an ad?	
8	A. Yes.	
9	Q. And is average frequency calculated by	
10	dividing impressions by reach?	06:30:06
11	A. I believe so. But I I would	
12	potentially need to to confirm.	
13	MS. WEAVER: Okay. That's it. I have no	
14	further questions at this time. And reserve all	
15	rights and we'll keep it open on behalf of	06:30:28
16	plaintiffs.	
17	MR. BENJAMIN: Okay. Thank you,	
18	Counsel Weaver.	
19	On behalf of Facebook, it sounds like	
20	plaintiffs have had the opportunity to ask the	06:30:35
21	questions they wanted to today. We just reserve	
22	all rights.	
23	We designate the transcript	
24	"Confidential" pursuant to the protective order	
25	pending the final confidentiality designation.	06:30:44
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1	MS. WEAVER: Great. Thank you.	06:30:47
2	We can go off the record.	
3	THE VIDEOGRAPHER: Off the record or	
4	I'm I'm sorry. I didn't I didn't hear it.	
5	Okay. So	06:30:55
6	MS. WEAVER: Go off the record. Sorry.	
7	THE VIDEOGRAPHER: Go off the record.	
8	Okay. Thank you.	
9	We're off the record. It's 6:31 p.m.	
10	(TIME NOTED: 6:31 p.m.)	06:31:04
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1	I, Rebecca L. Romano, a Registered
2	Professional Reporter, Certified Shorthand
3	Reporter, Certified Court Reporter, do hereby
4	certify:
5	That the foregoing proceedings were taken
6	before me remotely at the time and place herein set
7	forth; that any deponents in the foregoing
8	proceedings, prior to testifying, were administered
9	an oath; that a record of the proceedings was made
10	by me using machine shorthand which was thereafter
11	transcribed under my direction; that the foregoing
12	transcript is true record of the testimony given.
13	Further, that if the foregoing pertains to the
14	original transcript of a deposition in a Federal
15	Case, before completion of the proceedings, review
16	of the transcript [x] was [ ] was not requested.
17	I further certify I am neither financially
18	interested in the action nor a relative or employee
19	of any attorney or any party to this action.
20	IN WITNESS WHEREOF, I have this date
21	subscribed my name this 10th day of August, 2022.
22	
23	Retuccas. formano
24	Rebecca L. Romano, RPR, CCR
25	CSR No. 12546

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1	MATT BENJAMIN
2	mbenjamin@gibsondunn.com
3	August 10, 2022
4	RE: Facebook, Inc. Consumer Privacy User Profile Litigation
5	AUGUST 5, 2022, ISABELLA LEONE, JOB NO. 5345580
6	The above-referenced transcript has been
7	completed by Veritext Legal Solutions and
8	review of the transcript is being handled as follows:
9	Per CA State Code (CCP 2025.520 (a)-(e)) - Contact Veritext
10	to schedule a time to review the original transcript at
11	a Veritext office.
12	Per CA State Code (CCP 2025.520 (a)-(e)) - Locked .PDF
13	Transcript - The witness should review the transcript and
14	make any necessary corrections on the errata pages included
15	below, notating the page and line number of the corrections.
16	The witness should then sign and date the errata and penalty
17	of perjury pages and return the completed pages to all
18	appearing counsel within the period of time determined at
19	the deposition or provided by the Code of Civil Procedure.
20	Waiving the CA Code of Civil Procedure per Stipulation of
21	Counsel - Original transcript to be released for signature
22	as determined at the deposition.
23	Signature Waived - Reading & Signature was waived at the
24	time of the deposition.
25	
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1	xx Federal R&S Requested (FRCP 30(e)(1)(B)) - Locked .PDF
2	Transcript - The witness should review the transcript and
3	make any necessary corrections on the errata pages included
4	below, notating the page and line number of the corrections.
5	The witness should then sign and date the errata and penalty
6	of perjury pages and return the completed pages to all
7	appearing counsel within the period of time determined at
8	the deposition or provided by the Federal Rules.
9	Federal R&S Not Requested - Reading & Signature was not
10	requested before the completion of the deposition.
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1	I, ISABELLA LEONE, do hereby declare under
2	penalty of perjury that I have read the foregoing
3	transcript; that I have made any corrections as
4	appear notes; that my testimony as contained
5	herein, as corrected, is true and correct.
6	Executed this,
7	2022, at
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L O	
11	
12	
L3	ISABELLA LEONE
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	rage 300

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1	RE: Facebook, Inc. Consumer Privacy User Prof	ile Litigation
2	ISABELLA LEONE (JOB NO. 5345580)	
3	ERRATA SHEET	
4	PAGELINECHANGE	
5		
6	REASON	
7	PAGELINECHANGE	
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18	REASON	
19	PAGELINECHANGE	
20	DEA CON	
21	REASON	
23		
24	ISABELLA LEONE Date	
25	TOTALLITY LICHT	
		Page 369

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# Federal Rules of Civil Procedure Rule 30

- (e) Review By the Witness; Changes.
- (1) Review; Statement of Changes. On request by the deponent or a party before the deposition is completed, the deponent must be allowed 30 days after being notified by the officer that the transcript or recording is available in which:
- (A) to review the transcript or recording; and
- (B) if there are changes in form or substance, to sign a statement listing the changes and the reasons for making them.
- (2) Changes Indicated in the Officer's Certificate. The officer must note in the certificate prescribed by Rule 30(f)(1) whether a review was requested and, if so, must attach any changes the deponent makes during the 30-day period.

DISCLAIMER: THE FOREGOING FEDERAL PROCEDURE RULES

ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

THE ABOVE RULES ARE CURRENT AS OF APRIL 1,

2019. PLEASE REFER TO THE APPLICABLE FEDERAL RULES

OF CIVIL PROCEDURE FOR UP-TO-DATE INFORMATION.

# VERITEXT LEGAL SOLUTIONS COMPANY CERTIFICATE AND DISCLOSURE STATEMENT

Veritext Legal Solutions represents that the foregoing transcript is a true, correct and complete transcript of the colloquies, questions and answers as submitted by the court reporter. Veritext Legal Solutions further represents that the attached exhibits, if any, are true, correct and complete documents as submitted by the court reporter and/or attorneys in relation to this deposition and that the documents were processed in accordance with our litigation support and production standards.

Veritext Legal Solutions is committed to maintaining the confidentiality of client and witness information, in accordance with the regulations promulgated under the Health Insurance Portability and Accountability Act (HIPAA), as amended with respect to protected health information and the Gramm-Leach-Bliley Act, as amended, with respect to Personally Identifiable Information (PII). Physical transcripts and exhibits are managed under strict facility and personnel access controls. Electronic files of documents are stored in encrypted form and are transmitted in an encrypted fashion to authenticated parties who are permitted to access the material. Our data is hosted in a Tier 4 SSAE 16 certified facility.

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